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AUTHOR Fitting, Marjorie A.
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ABSTRACT

This publication provides not only a directory of schools in Santa Clara County and nearby with information on their use of computers, but listings of sources for various resources on educational use of computers, information about using and obtaining software, and descriptions of three news making events. The first section lists the Santa Clara County Schools and some nearby schools by district, and provides the name of the contact person, address, telephone number, equipment, and projected uses for each school in the district. The next section includes addresses and descriptions of eight professional associations; addresses of 13 user groups; information about 18 publications on computers; a list of computer science courses offered at San Jose State University; specifications for computers used in Santa Clara County; local suppliers; and dates of upcoming events. The third section provides brief descriptions of computer managed instruction and computer assisted instruction, a list of five factors to consider in organizing a computer software library, and information about 76 manufacturers of software for educational use. The final section contains reports or facts sheets on three diverse items: the Computer Science Institute at San Jose State University, Sesame Place, and Adventure of the Mind: A Series on Personal Computing produced by Children's Television International, Inc. (CHC)

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COMPUTER USE IN SANTA CLARA COUNTY SCHOOLS

by

Marjorie A. Fitting

Mathematics Department
San Jose State University

IR009947

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

CONTENTS

TO THE READER page one

PART I: Schools using computers for instructional purposes page two
Santa Clara County Schools are listed first in order by district. A few other nearby schools are included for interest or example. Whenever possible the name of a person in charge at each school precedes the name of the school.

PART II: Resources page 30
A. Professional organizations interested in educational use of computers.
B. User Groups
C. Magazines, newsletters and newspapers containing information about computers
D. Computer Science Course Offerings in the Department of Mathematics, San Jose State University.
E. Specifications on computers priced under $5,000.
F. Local Suppliers of Computers, Peripherals, and Supplies
G. Dates of coming events.

PART III: Using and Obtaining Software page 58
A. Kinds of computer programs for instructional purposes
B. Items to consider in organizing software
C. Manufacturers of software for educational use

PART IV: Information on News Making Events. page 67
A. Computer Science Institute, San Jose State University
B. Sesame Place
C. Children's Television International

TO THE READER

In compiling the information in this booklet a great effort was made to check and recheck data so that people using the information would not mislead. Nonetheless, some information may be inaccurate, situations may have changed, people or stores may have moved, etc. I apologize to any of you who are inconvenienced by this and will try to continually correct and update the booklet so that it can be reprinted whenever significant changes so dictate.

Please help by sending in your written suggestions, additions, and corrections, however great or small, to Professor M. A. Fitting, Mathematics Department, San Jose State University, San Jose, CA 95192.

Marjorie A. Fitting
San Jose State University

6/80

CAMPBELL UNION HIGH SCHOOL DISTRICT
Alice Mitchell
3235 Union Avenue
San Jose, California 95124
(408) 371-0960

Blackford High School
3800 Blackford Avenue
San Jose, CA 95117

Equipment: 6 48K Apple II Plus with disk and , B/W Sanyo monitors, integer card.
2 Trendcom graphic 80-character printers.

Projected uses: CAI in mathemtics, social studies, and English.

Del Mar High School
1224 Del Mar Avenue
San Jose, California 95128
(408) 298-0260

Equipment: 1 48K Apple II Plus with disk
Apple silent-type printer
Apple Graphics Tablet, Chatsworth Card Reader, Apple-Pascal system.

Uses: To be used primarily for CAI in Biology, Chemistry, Physics, and General Science and Classroom Record keeping beginning in the Fall of 1980.

Prospect High School
18900 Prospect Road
Saratoga, CA 95070

Equipment: 2 48K Apple II Plus with disk and B/W Sanyo monitors, integer card.
1 Trendcom graphic 80 character printer.

Uses: Development of CAI material, primarily.

6/80

CASTILLEJA HIGH SCHOOL (300 students)
1310 Bryant
Palo Alto, California 94303
(415) 322-2131

Toni Hsu; Jim Gilke

Equipment: 2 DECwriter terminals connected to Palo Alto school district HP for 1979-80.
Expect to purchase microcomputers for Fall, 1980.

Uses: 1. Computer Programming with Algebra II concurrent or prerequisite.
2. Computer Club. Some BASIC language programming but mostly games.
3. Physics students learn to program in BASIC during a two week period. Afterwards they use the computer to work physics assignments.
4. Drill in algebra.

St. Francis High School (1350 students)
1885 Miramonte Avenue
Mountain View, California 94040
(415) 968-1213

Mary Jane Halteman

Equipment: 2 CRT terminals with modem connected by phone line to Tymshare. Next year expect to have 3 or more CRT terminals and a printer to Tymshare.

Use: Computer Programming course teaching BASIC and Fortran. Prerequisite: Algebra II. Two classes for 1980-81. Each student has 20 min. twice each week during classtime and one or more hours after school. We can now use Tymshare anytime during day or night.

CUPERTINO UNION SCHOOL DISTRICT

Collins Junior High School
10401 Vista Drive
Cupertino, California 95014

Bobby Goodson, Project Director
(408) 255-5024 or 252-6002

Equipment: 5 APPLE II computers (32-48K)
2 B/W monitors, 1 color TV, 3 B/W TV, 2 disk drives, 1 Centronix printer, SpeechLab, Super Talker.

Uses: Students use the computers during recess and lunch and with teachers permission during class time. Two computers are kept on carts for classroom use. They are used in English, Science, and Mathematics classes for drills and tutorials and games. An elective calculator/computer mathematics class is offered. On-going project is "Computer and Calculator Mathematics" which purpose is to develop computer literacy.
Facilities are used for all district computer in-service activities. Project evaluators use center for statistical evaluation of test data.

Cupertino Junior High School
1650 Bernardo Avenue
Sunnyvale, California 94087

Dick Castronova
(408) 245-0303

Equipment: 2 Apple II (16-48K) , 1 color TV, 1 B/W monitor
1 disk drive.

Uses: The computers are kept in the Science Room and are used during free time.. A Computer Club has been organized to help plan these activities.

Dilworth Elementary
1101 Strayer Drive
San Jose, California 95129

Bob Edmiston
(408) 253-2850

Equipment: One Apple II computer with B/W monitor, dual disk drive.

Uses: Computer is used in room adjacent to the Learning Center.

Eaton Elementary
20220 Suisun Drive
Cupertino, California 95014

Barbara Mumma
(408) 252-7220

Equipment: Two Apple II computers (48K), two B/W monitors, two disk drives, one Trendcom printer.

Uses: Computer is part of a grade 4-6 MGM mathematics program (SRA pilot program) and is kept in the classroom. It is used for diagnoses, prescription and post-testing It is also used by students during their free time. A parent volunteer is teaching programming to small groups of students.

Faria School
10155 Barbara Lane
Cupertino, California 95014

Nancy Goebner
(408) 252-0706

Equipment: Apple II with disk drive and B/W monitor.

Uses: The computer will be available in 1980-81 for use in classrooms as part of the regular class work.

Garden Gate Elementary
10500 Ann Arbor Avenue
Cupertino, California 95014

K. A. Fisk
(408) 252-5414

Equipment: Two Apple II computers(32-48K), two color TVs, one disk drive and a printer.

Uses: Computer will be housed in Media Center.

Hoover Elementary
7555 Barhart Place
Cupertino, California 95014

D'Anne Carleton
(408) 253-8575

Equipment: One TRS80 Level II (16K) computer.

Uses: 4th, 5th, and 6th graders use the computer in the learning Center for class-related drill and practice: and for free-time use.

Hyde Junior High School
10325 Bollinger Road
Cupertino, California 95014

Ron LaMar
(408) 252-6290

Equipment: Two Apple II (32-48K), one color TV, one B/W monitor, one disk drive.

Uses: Computers are kept in the Media Center and are available for limited free time use by students. *Individual computer study program is available for a limited number of students. Additional computer use programs being planned for 1980-81.

Jollyman Elementary
1001 Jollyman Drive
San Jose, California 95129

Michael O'Kane
(408) 253-5611

Equipment: Two TRS-80 computers.

Uses: The computers will be set up in the Media Center and used initially in connection with a first through sixth grade reading program.

Kennedy Junior High School
821 Bubb Road
Cupertino, California 95014

Richard Pugh
Dave Persing
(408) 252-1525

Equipment: Two Apple II computers (16-48K), one B/W monitor, one color TV, one disk drive.

Uses: Two computers are housed in the classrooms and are available for use during students free time and in class when appropriate.

Miller Junior High
6151 Rainbow Drive
San Jose, California 95129

Jim McCaig
(408) 252-3755

Equipment: Two Apple II computers (48K), one color TV, one B/W monitor, two disk drives.

six

Uses: The computers are kept in a mathematics classroom for use during students free time and sometimes during mathematics classes. An elective computer programming class is planned for 1980-81.

Fremont Older Elementary
19500 Calle de Barcelona
Cupertino, California 95014

Sandy Bove
(408) 253-3103

Equipment: One TRS-80 Level II (16K) computer.

Uses: Computer is housed in the mathematics laboratory for use by fourth, fifth, and sixth graders in connection with the mathematics laboratory program and during free time. Fifth and sixth graders are learning simple programming.

West Valley Elementary
1635 Belleville Way
Sunnyvale, California 94087

Cheryl Turner
(408) 245-0148

Equipment: Two TRS-80 Level II (16K) computers with one "quick printer".

Uses: Computers are kept in the Media Center and are available to students during lunch and recess (with advance-sign-up, during class time for "drill and practice" and other initiated projects. Students are learning simple programming. One computer is availabe to take into classrooms for special lessons and motivation.

Wilson Educational Center
19900 Price Avenue
Cupertino, California 95014

Exploration Center Staff
(408) 252-6500

Equipment: Six Apple II computers (32K), six color TV, one disk drive, one Trendcom printer, one Super Talker.

Uses: A course in computer awareness and simple programming is available to second through sixth grade MGM students who come to the Center.

AST SIDE UNION HIGH SCHOOL DISTRICT
Frank Burrows
12660 N. Capitol Avenue
San Jose, California 95133
(408) 251-0570

Andrew Hill High School
3200 Senter Road
San Jose, California
(408) 227-8800

David Henriod

Equipment: Compucor Educator
TRS-80 48K with disk and printer.

Independence High School
1776 Educational Park Drive
San Jose, CA 95133
(408) 926-7377

W. Don McKell

Equipment: 1. DEC PDP 11/34 with 160K, RK05 disks, RX01 (8" floppy) disks, 8 assorted terminals including Lear-Siegler, DEC televideo, SOROC, ScanTron 2012.
2. DEC PDP 11/04 with 32K, RX01 disks, CM11F optical card reader for batch processing.
3. 6 Commodore PETS w/disk and printer.
4. 1 Radio Shack TRS-80 w/voice synthesizer.
5. 1 Apple II plus.

Purpose: To integrate computer problem-solving skills into science and mathematics classes.

Use: 3 classes in BASIC and Fortran programming; PETs used in Title I English and Mathematics programs.

James Lick High School
57 N. White Road
San Jose, California
(408) 926-7222

Francis Smith

Equipment: PET computer, Compucor Educator, & TRS-80.

Mt. Pleasant High School
1750 White Road
San Jose, California 95127
(408) 251-7820

Bryan Hartley, June Jones, Robert Lills,
Peter Morrone, Bill Yamaki

Equipment: 8K PET , 16K Apple II, 16K PET
3 TRS-80: 2 Level I, 2 Level II

Uses: Processing laboratory data in chemistry, physics. Drills and review exercises. CAI in all science classes, including general science. Enrichment in MESA group and after school drop-ins.

Oak Grove High School
285 Blossom Hill Road
San Jose, California 95123
(408) 225-9332

Dennis Barbarta, Steward Eastman

Equipment: TRS-80 Level II with printer and cassette interface. Compucor Educator.

Uses: Computer programming and advanced computer programming classes. Integration into Geometry and Algebra II. Computer simulations in Advanced Science and Biology.

W. C. Overfelt High School
1835 Cunningham Avenue
San Jose, California 95020
(408) 259-0540

Dennis Conway, Sherrill A. Hufnagel

Equipment: Processor Technology Sol Computer, two Decwriters
Thinker Toys Dual Density Disk Drive, 8"
5" Northstar Disk Drive with Northstar BASIC
ASTRAL with ICOM Disk Drive rented

Expected equipment, 1980-81:
18 PETs: 16 with 16K, 2 with 8K
Nestar Cluster 1 with simultaneous hookup of all machines.
3 printers.

Uses: (1) 1 teachers will be assigned for 6 periods to computer laboratory area.
(2) teach computer programming class.
(3) CAI instruction for mathematics, language arts and industrial arts.

Piedmont Hills High School
1377 Piedmont Road
San Jose, California
(408) 251-8740

Raymond J. Miailovich, George Schuttinger

Equipment: Use facilities at Independence High School
DEC PDP 11/04, DEC PDP 11/34
1980-81: 6 PETs

Uses: Computer Programming Class in BASIC with prerequisite of one year of algebra, perferably more.

Silver Creek High School
3434 Silver Creek Road
San Jose,California 95121
(408) 274-1700, Ext. 66

Jim Bell, John H. Hosmon, Judy LaCroix
Bob Wilson, Hyman Yip

Equipment: 1 Commodore PET 8K, Old style, small keyboard, built-in cassette.
HP 2000F high speed time share with 32 ports, unfortunately only 2 terminals.
2 more 8K PETS with built in cassette, small keyboard
2 teacher purchased 16K PETS (external cassette shared
and large keyboard
1 Commodore printer (friction feed).

Uses: Limited mathematics, science, and business drill and tutorials. Some teacher prepared record-keeping (grades, simple class attendance, seating charts).
Computer Programming Class in BASIC
with algebra plus <geometry or physics or algebra II> prerequisite.

Yerba Buena High School
1855 Lucretia Avenue

ten

San Jose, California
(408) 279-1500

Sandra Gilliam, Diane Pors, Paula Schineller

Equipment: TRS-80 Level II, 8K PET
In 1980-81 expect to have 6 more TRS-80 Level II with disk and printer.

Uses: Tutorial and drill programs in mathematics classes. Used in MESA (Mathematics, Engineering, Science, Achievement Program.) In 1980-81 will have two computer programming classes.

5/80

EVERGREEN SCHOOL DISTRICT
District Office
3188 Quimby Road
San Jose, California 95135
(408) 274-2520

Peg Ceresa, Resource Coordinator

Equipment: 1 TRS-80 Level II

Uses: An integrated part of a two week unit on computers.

FREMONT UNION HIGH SCHOOL DISTRICT
589 W. Fremont Avenue, Box F
Sunnyvale, California
(408) 735-6060

Cupertino High School
10100 Finch Avenue
Cupertino, California 95014
(408) 735-6428

Mary Ferenchak, Bryon Hansen

Equipment: Apple II, Cassette Tape, TV
2 TRS-80
1 PET

Uses: German Class drill programs. (TRS-80)
Business classes.(TRS-80)
Electronics laboratory.(PET)

Fremont High School
Saratoga-Sunnyvale Road
Sunnyvale, California
(408) 735-6263

Mary P. Roberts

Equipment: 2 Commodore PETs

Uses: One one-semester beginning programming class in BASIC with 20-25 students.
Calculus students are required to write computer programs for their class.

Homestead High School
21370 Homestead Road
Cupertino, California
(408) 735-6302

Steve Headley

Equipment: Apple II w/disk, Hewlett Packard 2007 system, Hewlett Packard 2100 system w/multi-user capabilities (8 users).

Uses: Computers I: Beginning programming in BASIC
Computers II: Advanced programming including microprocessor programming.
Calculus classes use equipment for required class assignments.

Lynbrook High School
1260 Johnson
San Jose, California
(408) 735-6456

Otis Halliday

Monta Vista High School
21840 McClellan Road
Cupertino, California
(408) 735-6160

Ed Mallick

Equipment: 2 HP CPU with peripherals
2 TRS-80 Level II with 1 disk drive and additiona memory
2 tape recorders

Sunnyvale High School
570 Britton
Sunnyvale, CA 94086
(408) 735-6368

Cathy Etheredge, Cindy Nichols
Al Chapman, Mike Summerbell

Equipment: Apple (plus use of TRS-80)

Use: Computer programming class

Equipment: access online to the Stanford Computer (3033) used for complete student recordkeeping services including attendance, scheduling, mark reporting, transcripts.

6/80

GAVILAN COLLEGE
Gilroy, California 95020
(408) 847-1400

Herb Peckham, Instructor

Equipment: HP-2000 with timesharing terminals.

Uses: 1. One line interactive registration system.
2. Introductory programming; 75-100 students in individualized class which serves as a feeder into other courses. 2 units. BASIC.
3. Heavy calculational use in mathematics classes.
4. Engineering 1- prerequisite trigonometry an concurrent enrollment in calculus. This is a course in computer problems. 4 units.
5. No CAI.

GILROY HIGH SCHOOL
7345 Church Avenue
Gilroy, California 95020
(408) 847-2424, ext. 261
(408) 842-5552

Burton Duke, Norman Pershing
William L. Smith

Equipment: 1 Apple II with color TV and disks.
7 TRS-80 with master control including disk and maximum memory configuration. Will have approximately $2000 to invest in software.

Uses: Trigonometry for successive approximations, random problem generation, problem correction tool for practical trigonometry problems.
Simulations programs for physics and experiment analysis.
Chemistry experiment analysis.
A computer program class in conjunction with our trigonometry program.
Classroom instruction use: e.g. graphing in Algebra I and trigonometry, roots of polynomials.
Basic instruction, drill, tutorials and simulations for the classroom. No administrative uses.

South Valley Junior High School
Church Street
Gilroy, California 95020

Peggy Burris
(408) 847-2424

Equipment: Previous rental discontinued.

LOS GATOSJOINT UNION HIGH SCHOOL DISTRICT
809 University Avenue
Los Gatos, California
(408) 354-2520

Los Gatos High School
High School Court
Los Gatos, California
(408) 354-2730

Mark Twain High School
17421 Farley Road
Los Gatos, California
(408) 354-1919

Saratoga High School
P.O. Box 68, Herriman Avenue
Saratoga, California 95070

Marian Halverson
(408) 867-3411

Equipment: 3 Apple II Plus, 2 disk drives
Soroc Technology terminal
NEC Spinwriter printer
Pascal and BASIC

Uses: Data base management: search, delete , modify, create Supermath educational package plus word processing used for ESEA needs assessment program. 1 more Apple available in media center for teacher checkout. One selected student works as aide to this program. Next year should have 12 more Apples and one class in Computer Literacy.

6/4/80

MILPITAS UNIFIED SCHOOL DISTRICT
480 Corning Avenue
Milpitas, California
(408) 262-2018

Calaveras Hills High School
480 Corning Avenue
Milpitas, California
(408) 263-2281

Milpitas High School
1285 Escuela Parkway
Milpitas, California 95035
(408) 262-1231

Rancho Milpitas Junior High School
915 Sequoia Drive
Milpitas, California
(408) 263-0900

Samuel Ayer High S#oool
1331 E Calaveras Boulevard
Milpitas, California
(408) 262-1231

Floyd Davis, Ext. 61

Equipment: Mathematics- 48K Apple II with Pasccal
4 5" floppy disk drives, Centronics 779 printer, Sony monitor, Chatsworth card reader, bright pen.
Reading: 48K Apple II with Centronics 779 printer, B/W monitor, disk drive.

Uses: Mathematics: Management of records, reference material management, preformance indicators for proficiency tests, classroom demonstrations, recreational uses. Began with Apple File Cabinet program.
Reading-recordkeeping on students with criterion testing.
Projected- Computer Center with tutorials, class enrichment, and computer programming (batch).

Thomas Russell Junior High School
1500 Escuela Parkway
Milpitas, California
(408) 262-8911

MOUNTAIN VIEW-LOS ALTOS UNION HIGH SCHOOL DISTRICT
1299 Bryant
Mountain View, California 94040
(415) 969-6571

Awalt High School
Truman & Bryant Avenues
Mountain View, California 94040
(415) 968-1647

Equipment: 1 IMSAI with DEC VT50 terminal
Northstar Disk Drive, BASIC
1 teletype for use as a printer

Los Altos High School
201 Almond Avenue
Los Altos, California 94022
(415) 948-6601

Virginia Kurzweil

Equipment: 3 terminals for timeshare.
1 administrative controlled NCR-Century 100 (Batch Fortran, limited to 1 program per student per quarter on punched cards.)
1 PDP-8F with marked sense card input for batch Fortran.
1 PET.

Uses: 3 year-long classes of computer programming (approx. 90 students), plus 1 Advanced Programming class (15-20 students).
Both Fortran and BASIC used in classes.

Mountain View High School
650 Castro Street
Mountain View, California 94041
(415) 967-5543

William J. (Sandy) Wagner

Equipment: 2 Sol (Processor Technology) each with
1 Northstar Disk Drive and BASIC.
2 Horizon Computers (Northstar) with
keyboards, one single, one dual disk drive. 4 Sanyo CRT monitors for above, 1 TRS-80 with mini-disk drive, 1 Okidata Printer (RS232 input), 2 additional ports timesharing on the Horizon, 1 Apple computer with Trendcom printer and disk drive for use in remedial mathematics.

Uses: 1 or 2 one-semester programming classes in BASIC. No prerequisites but algebra is recommended. Students may repeat for credit. Advanced programming.

Computer Club.

Algebra and other mathematics classes have a one or two week class in computer use.

Word processing in the business department using Electric Pencil text editing program.

2 sections of an adult education course in BASIC. No prerequisites and students may repeat the course for credit.

Apple computer used for helping students prepare for the high school proficiency tests in reading and mathematics.

On a limited basis:
Drill and practice in basic mathematics classes, simulations for other classes, drill and practice in Algebra I, assembly language using CP/M operating system.

In 1980-81, 4 Apples will be added with disk drives for running SRA and other mathematics review and drill materials.

PALO ALTO UNIFIED SCHOOL DISTRICT
25 Churchill Avenue
Palo Alto, California 94306
John Tuomy
(415) 255-8052

Equipment: HP 2000 with 32 ports
HP 3000 with 32 port capability

Walter Hays School
1525 Middlefield Road
Palo Alto, California 94301

George Paige, 6th Grade
(415) 855-8404

Equipment: 2 Northstar Horizon II with Z80.
Hewlett Packard 2000 access; also HP 3000 series III
HP donated software programs.

Uses: Title IVC "Computer Tutors" project.
Computer programming in BASIC.
CAI drill, practice, tutorials in mathematics and language.

Jordan Middle School
750 North California Avenue
Palo Alto, California 94303

Joan Targ, Griffith Weber
(415) 855-8283

Equipment: IMSAI 8080 32K memory, 1 disk drive.
3 Northstar Horizon 48K, Z80 CPU with 2 single disk drives, 1 dual disk drive, 3 terminals: 1 Digilog, 1 DECwriter, 1 CRT to HP 2000.

Uses: The Huntington Simulations are used in the Science Department on the HP2000 for Life Science; students write programs to help them use formulas for Physical Science; tutorial programs are being developed for Human Biology.

Computer classes in BASIC are peer taught and open to all through the "Computer Tutor" project on the microprocessors.

Wilbur Junior High School
480 E. Meadow Drive
Palo Alto, California 94304
(415) 855-8330

Arlene Leslie

Equipment: 3 Lear-Siegler Terminals to HP-3000

19

Gunn Senior High School
780 Arastadero Road
Palo Alto, California
(415) 855-8213

Larry Hawkinson, mathematics
Equipment: 3 Televideo CRT terminals, 2 DECwriters,
1 Digilog to HP 3000 at district office.

Uses: 1 course in computer programming in BASIC and Fortran.
Introductory units in various mathematics classes.

John Bray, business

Equipment: 3 Perkin-Elmer CRT Terminals
1 DECwriter, connected to HP 2000

Uses: ROP course in computer accounting

Michell Shockey, language

Equipment: 4 CRTs to HP 2000.

Uses: CAI in French and German

Jim Sudyk, social studies

Equipment: Digilog and Monitor connected to HP 2000

Uses: Simulations in Economics

Lucy Goodlive

Equipment: 1 DECwriter to HP 2000

Uses: Eureka program for career and college information utilized in the Lifestyles Center.

Palo Alto High School
50 Embarcadero Road
PaloAlto, California 94301
(415) 855-8186

George Truscott, mathematics

Equipment: 2 DECwriters, 3 CRT terminals wired to HP 3000
at district office.

Uses: 1 course in computer programming in BASIC and Fortran.

6/2/80

Sacred Heart High School
150 Valpariso Avenue
Menlo Park, California 94025
(415) 322-1866

Suzanne M. Lanahan

Equipment: 2 Apple II computers with BASIC and Applesoft (48K).
2 Trendcom 40 column printers.
4 disk drives
1 Video for display, 1 B/W TV for display
2 Realistic tape recorders

Uses: Two 2 semester programming classes using Neal Golden's book published by Harcourt, Brace, J.
Two week class in computer use as part of the geometry class.
Plans to add two week class in algebra I (1980-81), to integrate use into mathematics analysis class (1980-81), and to integrate computer programming into algebra and geometry classes (1981-2).

SANTA CLARA UNIFIED SCHOOL DISTRICT

William A. Wilson Intermediate School
1840 Benton Street
Santa Clara, California 95050

Jerry Stuefloten, Jim Rutledge
(408) 985-6375, (408) 243-5626

Equipment: PET

Uses: Math 8 (MGM) , learning BASIC computer language, solving algebraic equations, career uses.
Math 8 (non MGM but above grade level), learning BASIC computer language. Natural Science 8: graphing data.

SAN JOSE UNIFIED SCHOOL DISTRICT
1605 Park Avenue
San Jose, California 95126
(408) 998-6000

Equipment: 8 user Edusystem 20, PDP 8E
11 microcomputers purchased with MGM funds for elementary school use.
Other microcomputers available at individual schools.

SAN JOSE UNIFIED JUNIOR HIGH SCHOOLS

Peter Burnette Junior High School
850 N. Second
San Jose, California
(408) 998-6267

Gerald King; Edna Garcia

Equipment: Teletype terminal by phone to PDP 8E

Castillero Junior High School
6384 Leyland Park Drive
San Jose, California
(408) 998-6385

Larry Corina; Loretta Betz
Jim Miyanaga

Equipment: 2 PETS; 1 IMSAI with teletype

Use: 1 programming class

Bret Harte Junior High School
7050 Bret Harte Drive
San Jose, California
(408) 998-6270

Equipment: Teletype by phone to PDP 8E
Sol with 12" TV

Use: Computer is not used.

Hoover Junior High School
1635 Park Avenue
San Jose, California
(408) 998-6274

Equipment: Teletype terminal by phone to PDP 8E

Edwin Markham Junior High School
2105 Cottle Avenue
San Jose, California
(408) 998-6277

Dell Anderson; Karl Ting

Equipment: Teletype terminal connect to
1 Teacher assembled IMSAI
8K BASIC with tape storage

John Muir Junior High School
1260 Branham Lane
San Jose, California
(408) 998-6281

Sam Wiens

Equipment: 1 IMSAI with Lear Siegler Adam 3 CRT
8K BASIC with tape storage.

Steinbeck Junior High School
820 Steinbeck Drive
San Jose, California
(408) 998-6395

Ron Apra

Equipment: Apple with color CRT
2 PETs; 1 IMSAI with teletype

Use: 2 programming classes.

Grant: Under an AB65 Funds Planning Grant, Local programmers wrote CAI programs in the context of games.

Willow Glen High School
2001 Cottle Avenue
San Jose, California 95125
(408) 998-6330

Ron Welch, Horace Lucich

Equipment: 1 teletype with phone to PDP 8E (science)
1 Polymorphic 88 (+32K memory) with
Hitachi CRT and cassette tape recorder (media center), teletype printer, a Northstar Disk Drive.

Uses: 1. Computer Club meets before school, at lunch, and after school. (Poly 88)
2. Science: Integration of mathematics into science classes, simulation programs and statistics. (PDP8)

6/80.

SAN JOSE UNIFED SCHOOL DISTRICT HIGH SCHOOLS

Gunderson High School
622 Gaundabert Lane
San Jose, California
(408) 998-6340

John Beck; Ray Moore

Equipment: DEC PDP 11/03 with 4 terminals, a line printer and
RX01 disk drives.
IMSAI 8080 (28K) with 2 Northstar Disk Drives, TTY, and a CRT.
Poly 88 (16K) with video monitor and cassette recorder.
Exidy Sorcerer (32K), video monitor and cassette recorder.
Fairchild Spark 16 with CRT and cassette.
2 COMPUCORP programmable calculators with cardreaders.
2 TI 58 programmable calculators with printers.

Use: 1. Introduction to Computer Programming in Algebra 3,4 classes using programmable calculators and a little BASIC on the microcomputers.
2. Programming 1: instruction in BASIC and number systems.
3. Progrmming 2: Advanced BASIC and 8080 assembly language on IMSAI 8080 and Poly 88.
4. Programming 3: Individual projects in BASIC or assembly language (8080 or PDP 11); school data processing projects.

Leland High Schoo;
6677 Camden Avenue
San Jose, California
(408) 998-6290

Marvin "Bud" Lamborn
John Berney; Dave Dickerson; Neil Morrison

Equipment: Mathematics- 1 Teletype terminal on lease from Tymshare with access to Tymshare in Cupertino.
2 Teletype terminals by phone to PDP 8E.
Cromemco Z2D with 2 5" floppy disks, Lear Siegler Adam 3 CRT
Standard Cromemco printer.
Science- 9 TRS-80s with 2 disk drives, screen printer, 3 line printers, cassette and Network I.
1 Apple

Uses: Biology- Drills such as cell parts and cell functions, graphs such as carbon dioxide fermentation, tutorials such as DNA, protein synthesis, food webbs and mitosis.

Physics- Used as laboratory aid (for data management), games such as lunar lander, drills such as drill on significant figures, simulations such as wave addition, ray diagrams.

Physiology: Drills, simulations, and tutorials and recordkeeping. Quiz on body parts.

2 programming classes in the mathematics department.

We now have a computer center located in the science wing capable of housing 15 computers.

Abraham Lincoln High School
555 Dana Avenue
San Jose, California 95126
(408) 998-6300

Al Santos; Warren E. Jones

Equipment: 1 teletype by phone to PDP 8E
1 IMSAI with teletype
1 PET school owned (1 additional loaned by teacher); both 8K

Uses: 1 programming class.
Drill and practice in general mathematics.
Process and analysis of chemistry and physics data, labs., etc.

Pioneer High School
1290 Blossom Hill Road
San Jose, California 95118
(408) 998-6310

Howard Jensen; Al Fuller

Equipment: 1 Teletype to PDP 8E
1 IMSAI with teletype terminal and Northstar Disk Drive
2 Apple II, 48K RAm w/Applesoft, Pascal, 2 disk drives, printer

Uses: Computer Programming Class in BASIC with 1 semester of geometry prerequisite and less than 25 enrolled.
Use in algebra for tutorials in graphing and coordinate quiz.
Simulation and demonstration lessons in geometry, trigonometry and algebra on a limited scale.

San Jose High School
275 N. 24th
San Jose, California 95116
(408) 998-6320

Monya Johnson; Jeff Rochin; Jim Hood

Equipment: 2 IMSAI; 1 with Lear Siegler Adam 3 CRT terminal and 1 with teletype terminal.
1 PET.

Uses: Computer Club members and students on an individual basis presently use equipment. Teachers also use equipment for test generation and recordkeeping of achievement data. Plans for future use include integrating computer problem solving skills into Algebra I, Geometry, and Algebra III.

SUNNYVALE ELEMENTARY SCHOOL DISTRICT
830 W. McKinley
Sunnyvale, California 94086

Betty Kunz, 4-6 mathematics specialist
Jan Stewart, K-3 mathematics specialist
(415) 736-4981 Ext. 62

Equipment: 2 Apple II 16K, 2 PET 8K, 1 TRS-80 4K

Uses: Computer programming classes twice a week for MGM students in the 4th-6th grades.
Computer programming elective at the 7th and 8th grades.
Mathematics and reading drill and practice programs.

Cumberland Elementary
824 Cumberland Avenue
Sunnyvale, California 94087

Shirley Winn
(408) 736-8368

Equipment: Apple II Computer (16K) with color TV

Uses: The computer is housed in the Learning Center where it is available for free time use and where a beginning programming course is offered.

Hollenbeck Elementary
1185 Hollenbeck Avenue
Sunnyvale, California 94087

Diane Maglen
(408) 739-4134

Equipment: One PET computer

Uses: The computer is used as one of the learning centers in the fourth, fifth and sixth grade MGM classroom. The students are learning to use the computer and to do some simple programming.

Lakewood Elementary
750 Lakechime Drive
Sunnyvale, California 94087

Pat Tubbs, instructional aide
(408) 736-4082

Uses: Computer aided instruction in the Title I program and in preparation for the competency tests. Programming classes are offered for MGM students. Computers are housed in the Computer Center.

Madrone Intermediate
739 Morse Avenue
Sunnyvale, California 94086

Allan Lundquist
Don Ward (programming)
George Grenao (Title I)
739-2355

Equipment: 5 Apple II, 1 Apple II plus with floppy disk
1 Trendcom printer, one B/W monitor, four B/W TVs.
Six TRS-80 computers. The Dallas mathematics program.
Uses: The Apple II computers are housed in a mathematics classroom where computer programming is being taught as an elective and also introduced in some mathematics classes. The TRS-80s are being introduced into the Title I program where the Dallas Mathematics curriculum is in use.

Mango Intermediate
1080 Mango Avenue
Sunnyvale, California 94087

Mary Borghi
(408) 736-7292

Equipment: 6 Apple computers, color TV, 1 disk drive, 1 printer.

Uses: Computers are housed in the classroom where an elective course in computer programming is offered. The computers are also available for some free time use.

San Miguel Elementary
777 San Miguel Avenue
Sunnyvale, California 94086

Patrice DeWhitt

Patrice DeWhitt
(408) 739-9591

Equipment: Apple II computer (16K), color TV.

Uses: Computer is housed in Media Center. Drill and practice activities and beginning programming instruction is being planned.

Logan High School
1800 H Street
Union City, California 94587
(408) 471-2520

Steven King, Rob Schamberg

Equipment: PET 8001
Data General Nova 3

Uses: Mathematics and Reading Labs using CAI from Computer Curriculum Corporation.
Probability and Statistics using PETs.

PART II A: PROFESSIONAL ORGANIZATIONS INTERESTED IN EDUCATIONAL USE OF COMPUTERS

Association of Computer Users
Post Office Box 9003
Boulder, Colorado 80301

The Association acts as a clearinghouse for information about the computer industry. It publishes the BENCHMARK REPORT, a comparative report on currently popular computer systems and INTERACTIVE COMPUTING. Annual membership fee, $25.

AEDS, Association for Educational Data Systems
1201 Sixteenth Street, N.W.; Attention: Dr. Winston Addis
Washington, DC 20036; (202) 833-4100

The purpose of AEDS is to provide a forum for the exchange of ideas and information about the relationship of modern technology to modern education. Publications are the AEDS MONITOR, the AEDS BULLETIN, and the AEDS JOURNAL. Several small conferences and an annnual convention are sponsored. Individual membership is $25/yr.

ADCIS, Assocation for the Development of Computer-based Instructional Systems
Computer Center, Western Washington University
Bellingham, Washington 98225 (206) 676-2860

The purposes of this organization are to (1) advance the investigation and utilization of computer-based instruction (CAI) and/or management (CMI); (2) promote and facilitate the interchange of information, programs and materials in the best professional and scientific tradition; (3) reduce redundant effort among developers; and (4) to specify requirements and priorities for hardware and software development, and encourage and facilitate their realization.

An informative Newsletter is published six times a year so that members may keep up-to-date with the activities of other ADCIS members and with other CAI installations throughout the world. The Association also publishes the JOURNAL OF COMPUTER-BASED ISTRUCTION. ADCIS sponsors regular conferences and has been in existence since 1967. Annual U.S. and Canadian dues are $20/yr. The next conference is March 2-5, 1981 in Atlanta, Georgia.

CERC: Computer Education Resource Coalition
c/o TERC, 8 Eliot Street
Cambridge, MA 02138

A coalition of several organizations in the Boston area that provide services to teachers who are interested in using computers in their schools. Recognizing the need to share information with each other and the demand for broader dissemination of information to teachers, the first task of this organization is to publish a newsletter to focus on the identification of resources for teachers including seminars and courses, meetings, librariers, software sources, consulting services and printed materials.

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CUE, Computer Using Educators
President: William J. (Sandy) Wagner
Mountain View High School
Mountain View, CA 94042
(415) 967-5543

Secretary: Don McKell
Independence High School
San Jose, California
(408) 926-1776

IEEE Computer Society
445 Hoes Lane
Piscataway, New Jersey 08854

Membership in the society includes regular communication and direct technical interchange with practitioners of computer science and engineering through personal participation in local chapter meetings, seminars, and workshops; and a subscription to COMPUTER MAGAZINE. Annual dues $8.00.

Oregon Council for Computer Education
Eastern Oregon State College
LaGrande, Oregon 97850

SID, Society for Information Display
654 North Sepulveda Boulevard
Los Angeles, California 90049 (213) 472-3550

The Society promotes the use of information display, encourages its advancement, maintains a library of display information, exchanges and disseminates knowledge, promulgates definitions and standards, and stimulates new ideas in information display by providing a forum. It publishes a Journal, a quarterly Proceedings, and an Annual Symposium Digest, and various other material of interest to the members. Individual membership, $20/yr. Fulltime-student membership, $3.00/yr.
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PART II: B. USER GROUPS

ABACUS USERS GROUP
Byte Shop
Hayward, CA 94540
(415) 886-2980
3rd Thursday of Month

APPLE P.I.E
1st Thursday of month, 7:30 p.m.
Collins Jr. High, Cupertino
3rd Sunday of month, 3:30 p.m.
Computer Plus, Inc.,Sunnyvale
Bobby Goodsen (408)255-5024
Fred Viles (408)298-3728

COMPUCOLOR USERS GROUP
Third Thursdays of month, 6:30 p.m.
Program at 8:00 p.m.
127 North Santa Cruz
Western Savings Building
Los Gatos.
Membership $10.00.

Hewlett-Packard 1000 International Users Group
First annual meeting, San Jose, CA, Hyatt House, Aug. 25-27
Glen A. Mortensen, Intermountain Technologies, Inc.
P.O. Box 1604
Idaho Falls, Idaho 83401 (208) 523-0383

HOMEBREW COMPUTER CLUB
(alot of S-100 buss users)
Gordon French: (415) 325-4209

PUG (PET)
Meets at Ford Aerospace
Third Thursday of month
Mailing address:
22355 Rancho Ventura Blvd.
Cupertino, CA 95014

SORCERER USERS GROUP
(805) 988-3920

TI-MIX
Steve Moore; 737-7474

TRS-80, Santa Clara
Allstate Savings & Loan (usually)
Corner Pruneridge & Saratoga
7:30 p.m., last or second last
Tuesday of month
Bryan Devendorf, 494-8500
Next meetings Aug.28, Sept ?,Oct 23

Eastridge Community Hall
Eastridge Mall nr Penney's
2nd Friday of month
Dan Moss; 274-6250

Milpitas
Neal Thomsen; 263-6970

Menlo Park
Meets in Bldg 44, SRI
Laurel Drive, Menlo Park
Wednesdays, 7:30 p.m., monthly.
Bob Hanselman, 3403 Lodge Drive
Belmont, CA 94002.
591-1193 or 854-3300-X2151

Marin County
Ernie Ganas
998 Bel Marin Keys
Novato, CA 415-883-6522

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PART II C:
MAGAZINES, NEWSLETTERS AND NEWSPAPERS CONTAINING INFORMATION ABOUT COMPUTERS

ARESCO INC
P.O. Box 1142
Columbia, Maryland 21044
PAPER, for PET owners
Rainbow for Apple owners, $20/yr.(10 issues)
VIPER for VIP owners, $20/yr. (10 issues)
SOURCE for Sorcerer Owners, $20/yr. (10 issues)
MICRO STUDIO NEWS for STUDIO II owners, $15/yr. (6 issues)

BYTE Subscriptions
P.O. Box 590
Martinsville, New Jersey 08836
$18/year (12 issues)

COMPUTER PRODUCTS
Gordon Publications
P.O. Box 305
Dover, New Jersey 07801

CREATIVE COMPUTING
P.O. Box 789-M
Morristown, New Jersey 07960
(800) 631-8112
$15/yr. (12 issues)

CONTACT 5
User group newsletter for Apple
Available to Apple Owners of record only.
10260 Bandley Drive
Cupertino, California 95014
(408) 996-1010

HANDS ON! (free newsletter)
Technical Education Research Centers
575 Technology Square
Cambridge, Massachusetts 02139

InfoWorld (Microcomputing Newspaper)
530 Lytton Avenue
Palo Alto, California 94301
(415) 328-4602
$18/year (26 issues)

INTERFACE AGE Magazine
P.O. Box 1234
Cerritos, California 90701
$18/yr. (12 issues)

INTERFACE: The Computer Education Quarterly
116 Royal Oak ($9/yr, individual)
Santa Cruz, California 95066

MICRO (The 6502 Journal)
P.O. Box 6502
Chelmsford, MA 01824
$15/yr.U.S. (12 issues); $18 Canada

Microcomputer Newsletter
Available to TRS-80 owners of record only
Radio Shack, One Tandy Center
Fort Worth, Texas 76102

OnComputing
P.O. Box 307
Martinsville, New Jersey 08836
$8.50/yr. (4 issues)

PERSONAL COMPUTING
1050 Commonwealth
Boston, Massachusetts 02215
$14/yr.

RECREATIONAL COMPUTING ($10/yr, 6 issues)
Peoples Computer Company
1263 El Camino Real
Box E
Menlo Park, CA 94025

S-80 COMPUTING (TRS-80)
$15/yr. (12 issues)
S-80 Bulletin
Computer and Information
Exchange, Box 158
San Luis Rey, Ca 92068

THE COMPUTING TEACHER (6 issues per year)
Computing Center
Eastern Oregon State College
LaGrande, Oregon 97850
Subscription available from the above address or with a membership to the Oregon Council for Computer Education or with a membership to the Computer-Using Educators group.

THE MATHEMATICS TEACHER
National Council of Teachers of Mathematics
1906 Association Drive
Reston, Virginia 22091
Available with a membership to the National Council of Teachers of Mathematics.

ALSO OF INTEREST

ANNUAL BIBLIOGRAPHY OF COMPUTER-ORIENTED BOOKS
Computing Newsletter
Box 7345
Colorado Springs, CO 80933

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COMPUTER JOURNALS - CURRENT SUBSCRIPTIONS

AEDS Journal (Association for Educational Data Systems)
Apple Core
Apple Educators' Newsletter

Byte

C-LOAD
Compute: the Journal For Progressive Computing
Computer Music Journal
Computing Teacher
Creative Computing
CURSOR

Dr. Dobb's Journal of Computer Calisthenics & Orthodontia

80 Microcomputing

Information World
InfoWorld
Intelligent Machines Journal (now InfoWorld)
Interface Age

Journal of Computer-Based Instruction
Journal of Experiential Learning & Simulation

Kilobaud Microcomputing

M.E.A.N. Brief (Microcomputer Education Applications Newwork)
MICRO

on Computing
Online

People's Computers (now Recreational Computing)
Personal Computing

Recreational Computing
Robert Purser's Magazine of Computer Cassette Reviews & Software Directory

Simulation & Games
Software Exchange
Software Review

333 MAIN STREET · REDWOOD CITY, CA 94063 · (415) 364-5600

PART II D:

COMPUTER SCIENCE
COURSE OFFERINGS IN THE DEPARTMENT OF MATHEMATICS
SAN JOSE STATE UNIVERSITY
SAN JOSE, CALIFORNIA

44. Introductory Programming in BASIC. A fundamental course in computer programming and problem solving using the BASIC language. Algorithms and mathematical models. Files and data organization, searching and sorting, other non-numeric applications. Extensive programming experience on an interactive system.
Prerequisites: Two years of high school algebra or Math 8. Three units.

46. Introduction to Computer Science. An introduction to the concepts of computer science including algorithms, flow charts, functions, iterative techniques, recursive functions, trees, file structure, searching and sorting.
Prerequisites: Two years of high school algebra or Math 8.
Prerequisite or Corequisite: A course in BASIC programming. Three units.

127. Applied Modern Algebra: This course will introduce students to several algebraic structures which have applications primarily in computer science. Those structures to be examined include boolean algebras and rings, groups, and finite fields. Applications to be treated include the algebraic description of logic circuits, finite state machines, Polya enumeration, and coding theory.
Prerequisite: Two semesters of calculus. Three units.

144A-I Programming Techniques and Analysis. Each unit gives one-third of a semester of problem solving on one of the topics: A. Fortran IV programming; B. Monte Carlo methods; C. Numerical solution of differential equations; D. Assembly language programming; E. Statistical information processing. F. Iterative matrix techniques; G. Number theory; H. Non-numerical techniques; I. Error Analysis. A total of 6 units may apply toward a degree in mathematics or computer science. Math 144A (Fortran IV programming) or equivalent precedes other units.
Prerequisites: Second semester calculus and one course in computer programming such as Math 44 or Engineering 50. A. 2 units; B-I. each 1 unit.

145. Non-Numeric Programming: Non-numeric programming techniques using PASCAL. Beginning with an introduction to the PASCAL language, the course proceed to study a variety of topics such as recursion, trees, pattern matching, sorting, searching, and analysis of algorithms. Good programming methodology and documentation will also be emphasized. Numerous programming assignments will reinforce the ideas discussed in class.
Prerequisite: Math 144A. Three units.

146. Introduction to Data Structures: The purpose of the course is to introduce students to the most primitive actions of a computer and then show how the primitive actions can be put together to construct most of the complex actions that computers regularly perform. Following an introduction to Turing Machines and Assembly language programming, a variety of data structures will be discussed along with an analysis of their strong and weak points. The student will write programs for the PDP 11/45 minicomputer and the LSI 11/03 microcomputer in the assembly language of those machines. Particular attention will be given to Input/Output operations, stacks, linked lists, trees and recursive programming.
Prerequisite: Math 144A or consent of instructor. Three units.

196N. Introduction to the Theory of Computing: Finite sets, relations, and functions; an introduction to the concept of infinity; mathematical logic; elementary number theory and systems of number representation; graph theory and data structures; algorithms and computability; application of these structures to various areas of computer science.
Prerequisite: Math 127 & Math 146. Three units.

242. Mathematical Concepts of Information Sciences. Data reduction and the preservation of information, structure of information storage systems, pattern recognition, methods of optimization, computability and solvability, theory of algorithms.
Prerequisites: Math 127 , Math 144 (3 units), Math 146, and EE 174.
A core course for graduate students in the Computer and Information Science program. Three units.

254. Mathematical Theory of Computation. Mathematical notions of computable functions and models of computation, with applications to the design and implementation of programming languages, proving properties of programs and non-numerical simulation.
Prerequisite: Math 242 or Math 280. Three units.

256. Topics in Artificial Intelligence. This is a programming course which is intended to give students an overview of how one can program computers to perform intelligent tasks. The course will begin with an introduction to LISP and then move on to such topics as problem solving, game playing, graph searching techniques, natural language programs, scene analysis, and others as time permits. Students are expected to write computer programs in which they apply what they have learned. A major programming project wll be due at the end of the course.
Prerequisites: Math 242 and Math 280. Three units.

280. Data Structures. Basic concept of data. Linear lists, strings, arrays, and othogonal lists. Representation of trees and graphs. Storage systems and structure, and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Sorting (ordering) techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems.
Prerequisites: Math 127, 146, 144 and EE 174. Three units
A core course for graduate students in the Computer and Information Science program.

285. Advanced Mathematics. An introduction to automata theory, languages, and computation: grammars and languages, types of grammars and corresponding hierarchy of languages. Automata and language recognition. Types of automata (e.g., finite state machines, pushdown automata, Turing machines) and corresponding classes of languages. Context free languages: Parse trees, ambiguity, normal forms, deterministic context free languages, general parsing algorithms and complexity, parsing in real time, unsolvable problems. Application to language translation.
Prerequisites: Graduate standing. Math 242 suggested. Three units.

296C. Data Base Management Systems. A study of the organization, design, and deveopment of computer data base systems. Topics covered are: basic objectives of data base organization, a review of existing and proposed data base management systems and their logical views of data, physical storage structuring techniques and related access methods and assessment of the impact of newer storage technologies on future data base system development.
Prerequisites: Math 280 and EE 281. Three units.

PART II E: INFORMATION ON COMPUTERS USED IN SANTA CLARA COUNTY SCHOOLS

Several different computers are in use in the various schools of Santa Clara County. Several different classifications can be made. The computers commonly called personal computers are, in general, 8 bit microprocessor-based computers priced at less than $5000 for a complete system. This system includes a keyboard, a video display (CRT), the computer itself, a disk drive or cartridge tape recorder for storage of programs and data, and a printer for printout of programs, data, and results of a program. In general personal computers are designed for one-person operation although cluster systems which share a disk drive or printer are common.

Timeshare systems purchased by school systems include the 1000, 2000, and 3000 models manufactured by Hewlett Packard and the PDP 3, 8, and 11 systems manufactured by Digital Equipment Systems. These systems involve the purchase of terminals (teletype, or keyboard plus video display, or keyboard plus printer) as well as the purchase of the central computer. These systems, often called minicomputers, also involve extensive monthly maintenance charges.

Timeshare systems utilized by phone connections can provide access to main-frame computers with greater memory capacity and software capability. Use of these systems includes the purchase of terminals, the payment for connection time, storage space, and computer time to the main computer, and payment for use of the telephone line.

Business computers are most often single station installations which offer more precise numeric applications, possibly word processing capabilities, more versatile programming techniques, sometimes specialized software programs, and usually 8 inch floppy disk drives (as opposed to 5 1/4 inch for personal computers) or Winchester or other hard disk drives. Prices for these, often more dependable, computer systems can run from $3,200 to $20,000 each depending on the specifications. They may be 8 bit or 16 bit microprocessor based computers and often include a typewriter quality printer output.

Descriptions of some of the common personal computers follow in this section. Inclusion in this listing does not constitute a recommendation for purchase. The format is designed to provide some comparison between models and prices. Information is for general reference and all prospective buyers are urged to obtain complete information direct from the vendor before purchase.

Information contained herein does not include all manufacturers due to lack of response from many.

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ALTOS COMPUTER SYSTEMS

Name of computer: Altos Computer Systems ACS8000 Family
Manufacturer: Altos Computer Systems, Inc.
2360 Bering Drive
San Jose, CA 95131
(408) 946-6700
Local Representative: Western Microtechnology (distributor)
10040 Bubb Road
Cupertino, CA 95014
(408) 725-1660
Microprocessor Used: Z80A 8bit
Maximum amt. of RAM available:
Single User - 64K
Multi-User - 208K
Availability of BASIC: CBASIC II, MBASIC, plus 6 other languages
Peripherals: Altos manufactures only computer systems; we do not manufacture or sell peripherals such as printers or CRTs, however any standard RS232 peripheral will run with the Altos computer.
Educational Software: Contact:
Bill Glover
Microscience
1585 Holcomb Bridge Rd.
Suite 101
Rosswell, GA 30076
(404) 993-7859
Weight and Size: See attached configuration chart
Service Locations: Contact local representative
Warranty: 90 days from factory shipment date
Price: See attached
Date of Preparation: 5/30/80

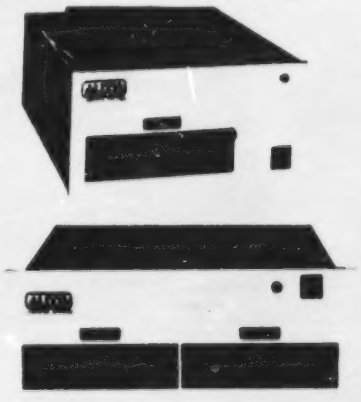
FLOPPY-DISK BASED SYSTEMS (Single User)

ONE-DRIVE FLOPPY DISK SYSTEMS (Single User)

Model No	CPU	RAM Memory	Floppy Disk Controller Density*	Type of Floppy Disk Drive	I/O Ports Ser	I/O Ports Par	No. of Drives	Total Floppy Disk Storage	Suggested List Price
ACS8000-1S	Z80A	64Kb	Single	Sgl sided	2	2	1	1/4 Mb	$2840
ACS8000-2S	Z80A	64Kb	Double	Sgl sided	2	2	1	1/2 Mb	3500
ACS8000-4S	Z80A	64Kb	Double	Dbl sided	2	2	1	1 Mb	4600

TWO-DRIVE FLOPPY DISK SYSTEMS (Single User)

Model No	CPU	RAM Memory	Floppy Disk Controller Density*	Type of Floppy Disk Drive	I/O Ports** Ser	I/O Ports** Par	No. of Drives	Total Floppy Disk Storage	Suggested List Price
ACS8000-1	Z80A	64Kb	Single	Sgl sided	2	2	2	1/2 Mb	$3840
ACS8000-2	Z80A	64Kb	Double	Sgl sided	2	2	2	1 Mb	4500
ACS8000-4	Z80A	64Kb	Double	Dbl sided	2	2	2	2 Mb	5600



Name of computer: Apple II

Manufacturer: Apple Computer, Inc.
10260 Bandley Drive
Cupertino, CA 95014

Local Representative: Eurapple, Computerland, Affordable Computer Systems, Computer Plus, Inc. (see local vendors listings)

Microprocessor Used: 6502 8 bit
Maximum amount of RAM available: 48K

Availability of BASIC: In ROM. Applesoft standard in Apple II Plus. Integer Basic standard in Apple II.

Keyboard Description: Typewriter style keyboard with upper case, 64 character standard.

Video Display Description: No monitor provided as original equipment. Requires monitor or RF modulator for TV use. Low resolution color block graphics and High resolution point graphics in firmware. Graphics utilize RAM and allow characters on last four lines of screen only.

Other Peripherals: Floppy disk subsystem requires minimum 32K Ram memory, 5 1/4" diskette, interface card plugs directly into mainboard, Master diskette (DOS) with sample programs, reference manual.
Serial Interface card: RS-232.
Graphics Tablet
Applesoft Firmware or Integer Basic Firmware Cards
Apple Language System
Programmer's Aid #1 with renumbering and linking, musical tone generation.

Educational Software: Apple Writer Text Editor; Apple Pilot; Apple Pascal
Apple Plot for charts and graphs; The Shell Games.
Apple Fortran- available 3rd quarter, 1980
Other manufacturers provide many others.

Weight and Size: 5 kg, 39.4 cm x 45.7 cm. x 11.4 cm.

Service Locations and Warranty: Apple Computer, Inc.
Service Facility, Sunnyvale
90 day warranty on parts.

Price:
16K Apple II Plus $1195. Retail
32K Apple II Plus 1345. Retail
48K Apple II Plus 1495. Retail
Disk II-drive and controller $595. Retail.
Video display and printer not included.

Date of Preparation: 4/28/80

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Name of computer: ATARI 800

Manufacturer: ATARI, Inc.
1265 Borregas Avenue
Sunnyvale, California 94086
800-672-1404, (408) 745-2100
Educational Consultant, Ted Kahn, (408) 745-2666

Local Dealers include SRA, Inc., c/o Bob Fox
14375 Saratoga Ave., Saratoga, CA 95070
(408) 867-1482

Microprocessor Used: 6502 0.6 microsecond cycle 8 bit

Maximum amount of RAM available: 48K

Availability of BASIC: Solid state cartridge program for Atari BASIC and Educational System Master included with original equipment.

Keyboard Description: Typewriter organization with 57 fullstroke keys and 4 separate function keys. Alpha, numeric and graphic keys. Upper and lower case.

Video Display Description: No monitor provided as original equipment. TV screen recommended. 24 lines of 40 characters. 320 X 192 resolution.

Other Peripherals: Four independent sound synthesizers for musical tones are standard equipment. Built-in RF modulator for connection to any TV.
Atari Cassette Tape Program Recorder included.
Atari printer and disk drives are optional at extra cost.

Educational Software: Full choice of ROM cartridge, tape cassette, and diskette presentations include SRA classroom management system, and self-paced instruction in more than 15 subject areas. Software suppliers include Personal Software, Inc. (Sunnyvale); Computer Curriculum Corporation; SRA, Inc.

Weight and Size: 12 1/2" X 16" X 4 1/2"; 9 pounds, 12 ounces.

Service Locations: Control Data Corporation, 1190 Borregas
Sunnyvale, CA; (408) 734-7802

Warranty: 90 day parts and labor on ATARI 800 console.

Price: $1080 for Atari 800 includes 8K Ram, RF modulator, cassette recorder. 16K Ram add-on, $200.
Disk drive, $700.

Date of Preparation: June, 1980

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Name of Computer: Challenger 1P, 4P, 8P

Manufacturer: Ohio Scientific, Inc.
1333 South Chillicothe Road
Aurora, Ohio 44202

Telephone: 800-321-6850

Local Representative:

Microprocessor Used: 6502 8 Bit
Maximum Amount of RAM Available: 48K
Availability of BASIC: 8K in ROM (48K total addressable memory)

Keyboard Description: 53-key typewriter type keyboard
Upper & Lower, and Character Graphics

Video Display Description: 12" color monitor provided at approximately $450.
16 colors available on 4P and 8P models.
12" black & white combination TV video monitor at $115.
30x30 character spaces on 1P; 32x64 on 4P and 8P.
Screen resolution 256x256 on 1P; 256x512 on 4P and 8P.

Other Peripherals: Mini-floppy available on 1P and 4P; dual 8" floppy on 8P.
Winchester hard disk option on 8P.
Cassette record available.
Printer interface standard on 4P and 8P; optional on 1P.
NEC, Centronics, or low-cost aluminized paper printer.
Joysticks, keypad, telephone interface, voice I/O, modems.

Educational Software: Over 37 different tapes and 9 different disk of programs ranging from arithmetic and spelling quizzes to chemistry, social studies, language and physics quizzes.
Business programs, personal programs, and game programs also available.

Disks priced at $35; cassettes at $6.50 to $13.

Weight and Size: Compact and lightweight computer unit.

Service Locations and Warranty: Dealer and/or Factory Service
60 Days Parts and Labor; 1 Year Parts

Price: 1P, 8K, with B/W TV monitor approximately $528.
4P, 8K with 12" color monitor approximately $1225.
8P, 32K, with 12" color monitor and dual 8" disks approximately $3370.

Date of Preparation: 5/28/80 - Revised: 6/03/80

Name of computer: Compucolor II

Manufacturer: Intelligent Systems Corporation
P.O. Box 569
Norcross, GA 30071
(404) 449-5996

Local Sales : Metra Instruments, Inc.
2056 Bering Drive
San Jose, CA 95131
(408) 297-8530

Microprocessor Used: 8080A- 2MHz speed, 8 bit CPU

Maximum amount of RAM available: 32K in addition to screen graphics and Disk BASIC

Availability of BASIC: DISK BASIC interpreter in ROM.

Keyboard Description: Typewriter style keyboard with 72 keys. Numeric pad, color pad and function keys optional. 128 characters including graphics. Lower case optional.

Video Display Description: Color monitor provided as original equipment. 64 characters per line/32 lines. 4 character sizes. 128X128 low resolution graphics in 8 true colors. 384X256 special character resolution.

Other Peripherals: Disk drive and RS232 interface provided as original equipment. 50 pin buss output provided. Additional disks available.

Educational Software: Math Tutor, Hangman, Othello, Concentration, and other standard packages available. Text editor, Word Processing, Personal Finance, 8080 Assembler, and general business programs also available.

Weight and Size: Computer, disk drive and color monitor in one unit, with 13" CRT. Plug in keyboard.

Service Locations: Sunnyvale Compucolor Factory Service Facility.
Warranty: 90 days.

Price: $1495 price includes color monitor, disk drive, keyboard, computer, and 8K Ram. 16K Ram, Model 4 is $1695. 32K Ram, Model 5 is $1995. Educational discount available from local sales outlet.

Date of Preparation: 6/10/80

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Name of Computer:	WH 89 All-In-One Computer
Manufacturer:	Zenith Data Systems 1000 Milwaukee Ave. Glenview, IL 60025
Local Representative:	George L. Oliver P.O. Box 1842 226 Fisalia Court Fremont, CA 94538 415-651-6720
Microprocessor:	Two Z-80s (8-bit)
Maximum Amount of RAM Available:	48K, (64K available soon)
BASIC:	Extended Benton Harbor BASIC (Part of Heath Disk Operating System) available Microsoft BASIC available
Other Languages available:	Microsoft FORTRAN Standard CP/M, COBOL, Pascal and C available soon.
Keyboard Description:	80 keys, designed in typewriter format, with 12-key numeric pad. Includes full 128-character ASCII set.
Video Display Description:	12-inch B/W monitor built-in. Displays 25 lines x 80 characters
Floppy Disk Storage:	5¼-inch drive standard with unit 100K of on-line storage
Other Peripherals:	Cassette tape interface standard with unit. Two-port RS-232C serial interface available at $100.00.* Up to 300K of on-line disk storage now available 8-inch disk system with up to 2 meg capacity, available soon Recommend WH-14 Printer at $895.00* TI-810 and Diablo 1640 RO, KSR Printers also available
Educational Software:	Ask local representative
Weight and Size:	Computer, video terminal, keyboard and disk drive--all in one unit--weight approximately 50 lbs. Unit dimensions are 13" H x 17" W x 20" D (33.02 x 43.18 x 50.80 cm)

more .....

Warranty:	90 days on parts and labor
Service Locations:	Local representative or: Heathkit Electronic Center 2350 S. Bascom Avenue Campbell (San Jose), CA 95008 408-377-8920
Price:	48K unit w/video terminal,keyboard and disk drive is $2895.00*
Date of Preparation:	7-1-80

*Prices subject to change without notice.

-30-

Name of computer: PET 4001

Manufacturer: Commodore Business Machines, Inc.
Northwest District Sales Office
3330 Scott Boulevard
Santa Clara, California 95051
(408) 727-1130 x331

Local Representative: Most local computer stores, e.g.
Mr. Calculator, 318 Town & Country Village
San Jose, CA 95128; (408) 246-5710
THE COMPUTER ROOM, 1500D Graham Hill Road
Santa Cruz, CA 95060; (408) 426-9473

Microprocessor Used: 6502 8-bit
Maximum amount of RAM available: 8K, 16K, 32K
Availability of BASIC: 14K in ROM containing BASIC with 9-digit floating binary arithmetic, tape and disk file handling, and machine language monitor.

Keyboard Description: 74 key typewriter style with numeric pad. 64 standard ASCII encodings including capital letters and numbers, 64 additional graphic characters. No small letters available.

Video Display Description: B/W video screen, 40 X 25 characters. Full cursor control, character insert and delete, screen editing.

Other Peripherals: IEEE-488 and IEEE parallel and 2 cassette ports standard. 2040 Dual floppy disk drive, $1295.; 2022 tractor printer, $795.; C2n external cassette recorder/player, $95.; modem.

Educational Software: Generally available through independent suppliers.

Weight and Size: 14" x 16.5" x 18.5" deep; 46 pounds.

Service Locations: Through local dealer.
Warranty: 90 days.
Price: $795. list for 8K.

Date of Preparation: 6/18/80

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Name of Computer:	SORCERER II
Manufacturer:	Exidy, Inc. Data Systems Division 390 Java Dr. Sunnyvale, CA 94086
Local Representative:	1) Nycom Inc. 4500 El Camino Real Los Altos, CA 94022 (408) 948-4500 2) Byte Shop Mt. View 1415 W. El Camino Real Mt. View, CA 94040 (415) 969-5464
Microprocessor Used:	Z80 CPU
Maximum amount of RAM ava	48K RAM; Serial RS-232C;Parallel I/O; S-100 connector
Availability of BASIC:	ROM Pac, Extended cassette, Disk Extended
Keyboard Description:	Typewriter style keyboard with 16 key numeric pad, and 79 keys of upper/lower case alphanumeric and graphic characters. 128 characters are fixed and pre-defined while the other 128 are user programmable.
Video Display Description:	Video Display: Industrial grade 12" CRT with flicker-free phosphor, 22MHz bandwidth providing high resolution characters; doesn't require RF modulator.
Other Peripherals:	Display/Disk: Industrial grade 12" CRT, RS-170 video, 22MHz bandwidth,contrast/brightness controls, and coaxial video outputs;dual disk drives with 630K bytes of data storage on 5¼" diskette and built in controller card no S-100 interface required. Supplied with the following software: CP/M operating system and utilities, Extended Disk BASIC, Z80 Assembler, Linkers, Debugger, Editor, and cassette conversion utilities. Floppy Disk Subsystem: Self contained stand alone single disk drive with 315K bytes of data storage on 5¼" diskette, plugs directly into SORCERER's 50-pin S-100 edge connector, and accepts (optional) add-on drive with 315K bytes. Supplied with the following software: CP/M operating system and utilities, Extended Disk BASIC, Z80 Assembler, Linkers Debugger, Editor, and cassette conversion utilities. S-100 Expansion Unit: Self contained 6-slot chassis with S-100 translation logic. S-100 bus is a collection of 100 information lines that carry address, data, status, control and power signals between the SORCERER and special devices such as: memory expansion cards, music/speech synthesizers, input/output devices, hard disks, etc. Printers: 3 types Dot Matrix: 9x7 dot matrix, 100% duty cycle, 80 column, 125cps/631pm bidirectionally printing with parallel interface.

Other Peripherals:

Daisy Wheel - 25cps: Industry standard 96 ASCII character printer wheel, parallel interface, 136 columns (Pica pitch) or 163 columns (elite pitch).

Daisy Wheel - 45cps: Same features as above except for print speed.

Educational & Scientific Software:

Presidents Quiz	English Education
Astronomical Computations	Simultaneous Equations
Word Search	Speed Reader
Quantum Chemistry	Music Note Names
Grafix	Truth Table
Graphics Characters	Kinematics
Cardiac Cath	Program Manager
Math Education	Math Tutor
Small Bus. Acctg.	Network Analysis
Touch Typing Course	Billing Program
Cross Ref. Pubs. Listing	Investment Management

Weight and Size: 13lbs; 19.25" x 13.0" x 4.0"

Service Locations: Exidy, Inc., 390 Java Dr., Sunnyvale, CA 94086; 90 days

Price:
16K RAM : $1,295 Retail
32K RAM : $1,395 Retail
48K RAM : $1,495 Retail

Date of Preparation: April 30, 1980

Name of computer: The Imagination Machine

Manufacturer: APF Electronics Inc
444 Madison Avenue
New York, NY 10022
(212) 758-7550

Local Sales Outlet:

Microprocessor Used:

Maximum amount of RAM available: 9K Ram standard with 8K Ram memory cartridges

Availability of BASIC: 14K in ROM

Keyboard Description: 53 key typewriter style keyboard with 2 game-style handheld controller with numeric keypads and joysticks.

Video Display Description: RF Modulator built in for use with home TV.
32 characters x 16 lines. Characters in 3 color modes.
Base graphics 64 X 32 with up to 8 colors, graphics and characters mix.
High resolution graphics 128 X 192 resolution in 8 colors,
256 X 192 in 1 color.

Other Peripherals: Built-in cassette tape deck with 6 functions.
Built-in music synthesizer with 3 full octaves, special effects.
Mini-floppy disk drive with interface cartridge; telephone modem;
40 column thermal printer; and 8K Ram memory cartridge plug into
Building block with 4 ports including standard RS232 port; items
available at extra cost.

Educational Software: Programs range from English and math to music composition.
Some are "game" learning and some are tutoring programs and drills.
Software available on cassette tapes and ROM cartridges.

Weight and Size:

Service Locations:
Warranty:
Price: 8K unit with joysticks, numeric pads, cassette tapes, music synthesizer, $599.95.

Date of Preparation: 6/12/80

Name of computer: TRS-80, Level II

Manufacturer: Radio Shack (Registered trademark of)
Tandy Corporation
Fort Worth, Texas 76102

Local Representative: Local Radio Shack Stores

Microprocessor Used: Z-80, 8-bit, 1.78 MHz.
Maximum amount of RAM available: 48K (Disk operating system will use 4.2K of this.)
Availability of BASIC: Level II BASIC in ROM with 6 digit floating point arithmetic.

Keyboard Description: 53-key typewriter-style keyboard with optional 10 key number pad. Upper case only.

Video Display Description: B/W video screen, 64 characters per line by 16 lines. Graphics 128 horizontal blocks by 48 vertical.

Other Peripherals: Parallel port included, RS-232 port optional, Cassette port standard. Cassette recorder, $49.95; voice synthesizer, $399.; and voxbox, $169.95; telephone interface, $199.00; up to 4 disk drives ($499. each) may be attached through expansion interface ($299). Several printers priced from $240 to $2000. Cluster disk available.

Educational Software: Generally available through independent suppliers. The Dallas Independent School System's objective oriented programs run on TRS-80 level II with added decoder (see software section).
Fortran, disk editor, editor assembler, T-bug monitor, renumber, double precision subroutines are available utilities. Math I, Algebra I, IQ Builder, and courses in BASIC are priced from $12.95 to $29.95.

Weight and Size: Keyboard 16 1/2 X 8 X 3 1/2"; Video 16 1/2 X 13 1/2 X 12". Power Supply 2 5/8 X 2 1/3 X 3 1/4".

Service Locations: Service through local dealer.
Warranty:
Price: Level II with 16K RAM and B/W monitor lists at $849.
Network I with 16 student stations priced from $18,603 costs approx. 36 cents/student hour with 5 yr. utilization.

Date of Preparation: 6/30/80.

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PART II: F. LOCAL SUPPLIERS OF COMPUTERS, PERIPHERALS, AND SUPPLIES

Active Business Machines
1148 Alpine Road, (415) 938-1230
Walnut Creek, CA 94596

Affordable Computer Systems
3400 El Camino Real, (408) 249-4221
Santa Clara, CA 95051
(408) 249-4221

Alltronics
15460 Union Avenue, (408) 371-3053
San Jose, CA
Electronic components,
Personal computers and peripherals

A/VIDD Electronics
2210 Belflower Blvd.
Long Beach, CA 90815
(213) 598-0444
Apple, Leedex, etc.

Byte Shop of Hayward
1122 B Street, (415) 537-2983
Hayward, CA 94541
Apple, PET, Atari, TI
Full service facility
Open 7 days, 11 a.m.-7 p.m.

Burroughs Corporation
1733 North First Street, (408) 292-7586
San Jose, CA 95112

Computerland of Los Altos
4546 El Camino Real, (415) 941-8154
Los Altos, CA 94022

Computerland of San Jose
1077 S. Saratoga-Sunnyvale Rd, (408) 253-8080
San Jose, CA

Computer Plus Inc.
1324 S. Mary Avenue
Sunnyvale, CA 9087
(408) 735-1199

Desmar Electronics
2306 Remo CT.t.
Santa Clara, CA
(408) 496-0692

Digital Deli Computer Store
80 El Camino Real, (415) 961-2670
West Mountain View, CA

Digital Equipment Corporation
100 Bush Street, 7th Floor
San Francisco, CA 94104
(415) 397-8670
Retail Computer & Peripheral Store

Digital Equipment Corporation
2525 Augustine Drive, (408) 727-0200
Santa Clara, CA

Retail Bookstore and Supplies Outlet
(Opening after July 1980)

Digital Equipment Corporation
Accessories & Supplies Center
632 E. Caribbean Drive
Sunnyvale, CA 94086
(408) 734-4915

Western Region Distribution Center
for Technical Documentation
Computer Accessories & Supplies
(mail and phone orders only)

Diversified Business Systems
2050 De La Cruz Bl, (408) 984-5906
Santa Clara, CA

E & O Systems, Ltd.
2998 Scott Blvd.
Santa Clara, CA 95050
(408) 727-1506

Barco Color TV Receiver/ Monitors
RF Modulators

Electrolabs, MKW Inc.
P.O. Box 6721
Stanford, California 94305
930 Emerson, (415) 321-5601
Palo Alto, CA 94301

Computer Systems, peripherals, media,
Integrated Circuits and Semiconductors
Cable and wire, etc.

ERA-I
10675 S. DeAnza Bl.
Cupertino, CA
(408) 446-1174
2 miles south of hwy 280 & deAnza Blvd (formerly Sunnyvale-Saratoga Rd.)

Hewlett Packard, calculators, HP-85
Atari, Compucolor II
Printers: NEC, Papertiger, BASE2, & others

Eurapple
10260 Bandley Drive
Cupertino, CA 95014
(408) 996-1010

Future Vision, Jim Macedo
Henderson Shopping Center
El Camino & Lawrence Expressway
Sunnyvale, California
(408) 246-0310

Golden State Data Products, (Disks, paper, and supplies)
Koll Circle
San Jose, California 95112
(408) 295-9922

Heathkit Electronic Center
2001 Middlefield Road
Redwood City, CA 94063

H89 computer, H19 video terminal
H14 line printer, H8 computer, H11 computer
and other Heathkit products.

Interim Computer Systems
72 S. First
San Jose, CA
(408) 292-1468
Software, Books, Media
Furniture, etc.
Complete Business Systems

Atari, PET, Cromenco, Exidy, Northstar
Perkin Elmer, TI, etc. computers.
BASE2, Centronics, Diablo, NEC, Qume
Dynabyte, Hazeltine, Heathdata, Heuristics
Hitachi, Intertec, Leedex, Lobo, Mattel
Micropolic, Microterm, Mountain Hardware
MPI, Novation, Sanyo, Soroc, Zenith, & others

International Data Equipment & Accessories Inc
2940 Corvin Drive, (408) 732-5030
Santa Clara, CA

Metra Instruments, Inc.
Pickering Division
2056 Bering Drive
San Jose, CA 95131
(408) 297-8530

Compucolor Computers
TRAINING YOUR COMPUTER book for PET,
Apple, TRS-80, Compucolor
Software for Apple, Compucolor
Disk filing folders

Microbyte Computer Store of San Jose
2626 Union Avenue, (408) 377-4685
San Jose, CA

Moore Business Forms, Inc.
3031 Tisch Way, Suite 912
San Jose, California 95128
(408) 248-1621

Business forms and systems
Computer paper, floppy discs, cassettes
and other computer supplies.

Moxon Electronics
2376 Walsh Avenue
Santa Clara, CA 95050
(408) 727-6491

Computer Peripherals, Data terminals,
Data Communications Products

O.B.1, Inc.
1304A logan Avenue
Costa Mesa, CA 92626
(714) 549-3950

Anadex Printers

Pacific Office Systems, Inc.
2600 El Camino Real
Palo Alto, CA 94303
(415) 493-7455

IBM Selectric terminals, Diablo printers
TRS-80 Interface for Daisy Wheel Printers
9-track tape drives and microcomputer
interface for same, Bell std.103,202 modems

Queue Computer Store
1044 University Ave, (415) 845-5300
Berkeley, Ca

Photo & Sound Company
1425 Koll Circle
San Jose, California 95112
(408) 293-9610

Apple Computers, Bell & Howell

Radio Shack, A Tandy Company
Almaden Rd &Curtner, (408) 267-6060
Fruitdale Ave & Southwest Expressway, (408) 294-6050
Story Rd. & McGinness Ave, (408) 258-0334
1375 Blossom Hill Rd, (408) 264-1467
1120 Branham Lane, (408) 265-4500
205 Eastridge Center, (408) 274-6250
233 LaPalo Drive, (408) 926-1155
3145 Payne Avenue, (408) 247 5300
6241 Santa Teresa Bl, (408) 226-0484
1820 Saratoga Ave, (408) 379-5826
1622 Saratoga-Sunnyvale Rd., (408) 732-9750
3245 Stevens Creek Blvd., (408) 249-1722
2989 Union Ave, (408) 371-5411
87 S. First, (408) 293-0542
4140 Monterey Road, (408) 578-4851
2185 Morrill Avenue, (408) 262- 1242
Oakridge Blossom Hill Rd & Pearl Avenue, (408) 629-4477
San Jose, CA
797 W. Hamilton Avenue, Campbell, (408) 378-7871
14170 Blossom Hill Rd., (408) 356-2175
Los Gatos, CA
2770 El Camino Real,(408) 243-8050
Santa Clara, CA
Grant Park Plaza, (415) 961-7964
San Antonio Shopping Center, (415) 941-2320
Mountain View, CA
248 Hamilton, (415) 329-8081
Palo Alto, CA
2310 Homestead, (415) 735-8260
Los Altos, CA

Radio Shack, A Tandy Company
719 Sunnyvale-Saratoga Rd, (415) 732-9750
Sunnyvale, CA
10123 N. Wolfe Rd, (408) 996-1311
Cupertino, Ca
550 N. Abel, (408) 263-6970
Milpitas, CA
TRS-80 Educational Consultant, Gus Treewater
Foster City, CA (415) 574-9058
Computer Center for TRS-80, Bob Lamvich
San Mateo, (415) 573-8607
Western Regional Coordinator for Dev. Ed. Sales for Radio Shack
Erv Barth (reports to Senior V.P., Charles Phillips)
(415) 574-1708

Roy Lum & Co
20662 Marion Road
Saratoga, CA 95070
(408) 867-0630

Programming, System Design
Timesharing arrangements

Software Concepts
P.O. Box 1112
Cupertino, California 95015
(408) 253-8086

Software & Computer Products — Verbatim Disks
Post Office Box 503
San Bruno, California 94066
(415) 348-2387

Jay Stone & Associates
339 South San Antonio Road
Los Altos, California 94022
(415) 948-4563

Tektronix, Inc.
3333A Octavius Drive (408) 243-9620
Santa Clara, CA 95051

Tektronix, Inc. (Dell Williams)
3451 Vincent Road
Pleasant Hill, CA 94523
(415) 932-4949

Texas Instruments
10675 S. DeAnza Bl, (408) 446-1174
Cupertino, CA

Thorson West — Beehive, Centronics
625 Ellis Street, (415) 964-9300
Mountain View, CA 94043

Unbounded Computing — 6800/6809 Software, Qume printers
1134 Aster Avenue, Suite K — Smoke Signal Broadcasting products
Sunnyvale, CA 94086 — Custom programming
(408) 737-7474 — System sales and support

United Components/The Systems Store — TI terminals, computers,
2520 Mission College Blvd. — University Micro boards
Santa Clara, CA 95050 — Cromemco Products
(408) 988-1988

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PART II G: DATES OF COMING EVENTS

August 25-27: First Annual meeting of the Hewlett-Packard 1000 International Users Group, San Jose Hyatt House. For further information contact Glen A. Mortensen, Intermountain Technologies, Inc., P.O. Box 1604, Idaho Falls, Idaho 83401, (208) 523-0383.

September 18, 4:00 p.m.: San Jose Regional group of Computer Using Educators; County Educational Center, 100 Skyport Drive, San Jose. Contact Glenn Vaughn for further details at 299-2961.

September 26-27: Classroom Applications of Computers in Grades K-12 Conference, Independence High School, San Jose, CA; tutorial sessions, workshops, and exhibits of hardware and software. Contact: W. Don McKell, Computer-Using Educators, Independence Hish School, 1776 Educational Park Drive, San Jose, CA 95133.

October 14-16: Mini/Micro Conference and Exposition, Civic Auditorial, Brooks Hall, San Francisco, CA; technical program and product exposition devoted to small computers. Contact: Mini/Micro Computer Expo, 32303 Camino Capistrano, Suite 202, San Juan Capistrano, CA 92675.

October 18: Fall Mathematics Conference, California Mathematics Council, Central Section, California State University, Fresno . For more information contact Janet Deroian, 3944 E. Orleans, Fresno, CA 93702; 264-2525.

November 14-15: 'Problem Solving and Microcomputers', Convention Center, Anaheim, CA; sponsored by the Southern Section of the California Mathematics Council. Contact Art Lundahl, 1158 N. Laurel Avenue, Upland, CA 91786.

November 20-21: Fourth Western Educational Computing Conference presented by California Educational Computing Consortium, Kona Kai Club, 1551 Shelter Island Drive, San Diego, CA 92106. Two day registration, $70.; one day $35. Contact: Virginia S. Lahley, Glendale College, 1500 N. Verdugo Rd., Glendale, CA 91208; registration fees to Hal Roach, Manager of Computing Services, Mt. San Antonio College, 1110 N. Grand Avenue, Walnut,CA 91789.

December 5-7: Northern Section, California Mathematics Council, Asilomar Conference. Contact: Bob McFarland, 2101 Highlands Road, San Pablo, CA 94806.

May 4-7, 1981: National Computer Conference, McCormick Place, Chicago, Illinois. Technical Program Chairman, Dr. Alex Orden, University of Chicago Graduate School of Business, 1101 East 58th Street, Chicago, IL 60637.

PART III: USING AND OBTAINING SOFTWARE

KINDS OF COMPUTER PROGRAMS FOR INSTRUCTIONAL PURPOSES

Computer managed instruction (CMI) is an instructional management system involving organizing curricula and student data, monitoring student progress, diagnosis and prescription, evaluation of learning outcomes and provision of planning information for instructors.

Computer assisted instruction (CAI) is a teaching process which can involve one or more or the following:

1. Drill: repetition of facts, definitions, theorems, formula which are to be committed to memory.

2. Practice: application of previously learned principles or algorithms to sample situations.

3. Tutorial: presentation of new knowledge combined with evaluations of how well student is acquiring the knowledge. The evaluation is used to route the student through a branching program to provide review, practice or drill, and reinforcement. In one form the tutorial is a program in which the student will read some material and answer a question (or two) about the reading; the computer will record the number of answers correct and incorrect. In more imaginative forms the tutorial helps the student to discover the principles to be learned and provides adequate application of the principles.

4. Demonstration: demonstration of cause-effect relationships involving student input of independent variables and immediate display of results. In a demonstration each independent variable usually has an effect on one unique characteristic of the result.

5. Simulations: presentation of a problem oriented environment in which the student makes irrevocable decisions and suffers the consequences. In a simulation the sequence of activities is linear and each activity + decision + result affects the possibilities available in the next activity.

6. Games: drill and practice using skill and/or strategy. Student may compete or cooperate with another student, with the computer, or for a score or other result indicating his level of achievement.

7. Problem Solving: computational procedures which allow students to gather data or operate on data the results of which will lead them to the solution of the problem at hand.

Both CMI and CAI involve use of existing programs for instructional purposes. In many instructional settings students are involved in writing their own programs for problem solving or for experience when learning how to program. This is not considered as CAI or CMI.

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ITEMS TO CONSIDER IN ORGANIZING A COMPUTER SOFTWARE LIBRARY

I. How will the disks or cassettes be stored?
   A. Rack or Binder or Box or ?
   B. How will the documentation be arranged to accompany each program?

II. What categories will be used for organization?
   A. 1 grouping per computer per language. Watch integer BASIC and floating point BASIC.
   B. 1 grouping per level of instruction (high school, junior high, 4-6).
   C. 1 grouping per subject area (Science vs Mathematics vs Social Studies vs etc.)
   D. Grouping by kinds of programs:
      1. drill
      2. practice
      3. tutorial
      4. educational games
      5. utilities for programming ease.
      6. demonstration
      7. simulation
      8. problem solving
      9. miscellaneous

III. How will users be able to copy disks.
   A. Bring pre-initialized disk or have facilities to initialize disks on minimum configuration.
   B. What computers will be available with disks, with cassettes. Might be best if users brought own cassettes since difference in recording can also mean difference in retrieval.
   C. Will printed copies of programs be available for duplication.
   D. How will you let people know the service is available.

IV. Will library include copyrighted materials?
   A. Some are copyrighted with permission to copy for private use to prohibit vendors from selling.
   B. Where will money come from to purchase sample programs so that people can evaluate them before ordering from vendor? How are copyrighted materials to be kept separate from copyable materials?
   C. Who will clean up donated programs so that they are educationally sound?

V. What kinds of evaluations of program will be provided?
   A. Educational objective if often overlooked.
   B. What kinds of feedback are provided to the library from users.

Please provide comments on this outline to Professor Marjorie Fitting, Mathematics Department, San Jose State University, San Jose,CA 95192.

PART III C: MANUFACTURERS OF SOFTWARE FOR EDUCATIONAL USE

I have tried to list here those companies which provide an original source for sale of programs for use on microcomputers. The software produced has not been evaluated and the listing here is NOT a recommendation of the products manufactured. Computers on which the software is designed, if known, are listed to the right of each. Please notify me of any errors, I have tried to be as complete as possible and have included all information available whether checked or not. Those starred publishers are listed in the QUEUE catalog and available from that source.

Aardvark 1690 Bolton Walled Lake, Michigan 48088 (313) 624-6316	Ohio Scientific
Acorn Software Products, Inc. 634 North Carolina Avenue, S.E. Washington, D. C. 20003	TRS-80
Alladin Computer Corp. 3420 Kenyon Street, Ste 131 San Diego, CA 92110	Apple Math-Ter-Mind: tutorial and drill, elem. Lundar Lander
Apple Computer, Inc.	Apple, See your vendor for complete listing.
Basics & Beyond, Inc. Box 10 Amawalk, NY 10501 (914) 962-2355	TRS-80
Bell & Howell 7100 McCormick Road Chicago, Illinois 60645 (312) 673-3300	Apple Mark Pilot, GENIS I An authoring systems and a presentation system for teacher use.
CAVRI*	
Charles Mann and Associates 7594 San Remo Trail Yucca Valley, CA 92284	Apple Teacher Plus Pack, Teacher Pack Teach programming in BASIC for secondary level.
COMPress P.O. Box 102 Wentworth, N.H. 03282 (603) 764-5831	Apple Population growth, Genetics, Statistics
CompuSoCo 26251 Via Roble Mission Viejo, CA 92691 (800) 852-7777	Apple

Computer Marketing Corporation 116 South Mission Wenatchee, WA 98801 (509) 663-1626	Microsoft, C-Basic Altos Computers, SuperBrain, and other CPM based systems.
Computer Solutions 5135 Fredericksburg Road San Antonio, TX 78229 (512) 341-8851	Apple Reading, English Literature Kinetic Theory of Heat 6502 Simulator Visual Display
Cook's Computer Company 1905 Bailey Drive Marshalltown, Iowa 50158 (515) 752-8279	Apple, Elementary and Secondary Levels Math, typing, problem solving
Conduit, University of Iowa 100 LCM Iowa City, Iowa 52242 (319) 353-5789	Apple, college level subjects
Creative Computing Software P.O. Box 789-M Morristown, N.J. 07960	Apple II Plus, Apple II, TRS-80 (Levels I and II), PET, Sorcerer, Challenger, Atari, Sol-20.
Cybernetics, Inc. 8041 Newman Avenue, Suite 208 Huntington Beach, CA 92647	CP/M and CP/M-based applications for TRS-80 (Mod I & II), RM/COBOL, C-Basic, MagicWand, etc.
Dallas Independent School District Marketing Department 912 South Ervay Dallas, Texas 75201 (214) 742-7991	Microcomputer Mathematics Program K-8: a set of tapes for drill, practice, and tutorial for K-8 in basic arithmetic. Coordinated with objectives, texts, and methods of use. TRS-80 Level II, 16K. Price of set: $995.00
Datasmith 15501 West 109th Street Lenexa, Kansas 66219 (913) 888-8486	Micropolis Business Programs
Dynacomp P.O. Box 162, Dept C Webster, New York 14580	Apple II Plus TRS-80 (Level II) Northstar
E & L Instruments *	
Edusoft 256 South Robertson, Suite 2156 Beverly Hills, CA 90211	Apple Elementary Math State Capitals

-

Edutek 415 Cambridge, #14 P.O. Box 11354 Palo Alto, CA 94306 (415) 325-9965	Apple Elementary math, music, reading Logic-elementary and secondary
Edu-Ware Services, Inc. 22035 Burbank Blvd., Suite 223 Woodland Hills,CA 91367 (213) 346-6783	Apple Compu-Read: speed-reading Compu-Math: fractions. Simulations, Problem Solving, utilities, etc.
Frey, Peter W. *	
Futureworld 2514 University Drive Durham, North Carolina 27707	Apple, graphing, secondary and above
Hartley Software 3268 Coach Lane #2a Kentwood, Michigan 49508 (616) 942-8987	Apple, Reading and spelling, drill and practice
Hayden Book Company 50 Essex Street Rochelle Park, New Jersey 07662	Apple, general mathematics, drill and utility for secondary level and above.
Instant Software Dept. CCOEO Peterborough, NH 03458 (800) 258-5473	PET, TRS-80, Apple Ham Package, Electronics, Typing Teacher Surveyor's Apprentice, Russian, Speed-Reading Math Tutor, Decorator's Assistant, Wordwatch
Instructional Micro Systems 1249 Greentree Lane Narberth, PA 19072 (215) 664-1207	Apple Reading, all levels
International Council for Computers in Education * Jensen, Neal *	
Korsmeyer Electronic Design 9612 Chevy Chase Huntington Beach, CA 92461	Apple, electronic design Secondary and post secondary
LEVEL IV Products, Inc. 32238 Schoolcraft, Suite F4 Livonia, Michigan 48154 (800) 521-3305	TRS-80
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Math Software 1233 Blackthorn Place Deerfield, Illinois 60015	Apple II-Plus, software unlocks color graphics to demonstrate mathematical concepts. Request free catalog.
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Metra Instruments, Inc.
Pickering Division
2056 Bering Drive
San Jose, CA 95131
(408) 297-8530

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Micro Gnome*

Micro Learningware
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Minneapolis Educational Computing Consortium
2520 Broadway Drive
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(612) 376-1117

Apple
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Milliken Publishing
1100 Research Blvd.
St. Louis, Missouri 63132
(314) 991-4220

Apple, TRS-80, PET
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Micro Users Software Exchange (MUSE)
7112 Darlington Drive
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3412 Binkley
Dallas, Texas 75205

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(415) 845-8013
(201) 540-1533

TRS-80, CP/M

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592 Wedell Drive
Sunnyvale, CA 94086

Apple
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Powersoft
P.O. Box 157
Pitman, N.J. 08071
(609) 589-5500

Apple, mathematics, vocational training, statistics, electrical engineering, secondary level and above

Program Design, Inc.
11 Idar Court
Greenwich,CT 06830

Apple
Reading, BASIC programming, mathematics, writing, spelling, elementary and secondary.

Programma International, Inc.
3400 Wilshire Blvd.
Los Angeles, CA 90010
(213) 384-0579

Apple II, Engineering, mathematics, business education, physics on secondary level and above, elementary reading.

Programmer's Software Exchange
P.O. Box 199
Cabot, Arkansas
(501) 843-6037

Apple
Aircraft Simulator

Programs for Learning, Inc.
P.O. Box 954
New Milford, CT. 06776

Apple
Chemistry, secondary and post-secondary.

Purser, Robert Elliot*

Quality Software
6660 Reseda Blvd., Suite 105
Reseda, CA 91335
(213) 244-6544

Atari 400/800

QUEUE
5 Chapel Hill Drive
Fairfield, Connecticut 06432
(203) 372-6761

Apple, TRS-80, PET

Rainbow Computing Inc.
Garden Plaza Shopping Center, Dept 118
9719 Reseda Blvd.
Northridge, CA 91324
(213) 349-5560

Apple
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Realty Software Company
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Hermosa Beach, CA 90254
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School District of Philadelphia
Henry R. Altschuler
Instructional Systems
5th and Luzerne Streets, 5th Floor
Philadelphia, PA 19140

Apple, elementary mathematics and geometry

Science Research Associates 155 North Wacker Drive Chicago, Illinois 60606 (800) 621-0664	Apple and Atari Classroom Management System for mathematics Elementary and junior high.
Simutek P.O. Box 35298 Tucson, AZ 85740 (602) 882-3948	
Small Business Applications, Inc. 3220 Louisiana, Suite 205 Houston, Texas 77006 (713) 528-5158	CP/M
Small System Software P.O. Box 366 Newbury Park, CA 91320	TRS-80
Smart Games*	
Softagon P.O. Box 744 M Morristown, N.J. 07960 (201) 539-3770	Apple, elementary reading
Softape Software Exchange 10756 Vanowen Street No. Hollywood, CA 91601 (213) 985-5763	Apple, elementary mathematics
Solartek*	
Sterling Swift Publishing Co. P.O. Box 188 Manchaca, TX 78652 (512) 444-7570	Apple, data processing, programming
Synergestic Solar*	
The Code Works Box 550 Goleta, CA 93017 (805) 967-0905	Atari
The Program Store 4200 Wisconsin Avenue NW P.O. Box 9609, Dept C5 Washington, D. C. 20016	TRS-80
The Software Factory 23849 LaSalle Canyon Drive Newhall, CA 91321	Apple, CP/M, TRS-80 Elementary mathematics and spelling, secondary and above-chemistry.

The Software Store 706 Chippewa Square Marquette, MI 49855 (906) 228-7622	Z80 & 8080 based computer programs
TIS P.O. Box 921, Dept CC Los Alamos, NM 87544	PET
TYC Software 40 Stuyvesant Manor Geneseo, N.Y. 14554	Apple II A course in mind-menory improvement.
United Software of America 750 3rd Avenue New York, NY 10017 (212) 682-0347	Apple II
Univair, Inc. 10327 Lambert, Intl Airport St. Louis, Mo 63145 (314) 426-1099	CP/M, TRS-80 II, Business programs

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PART IV: REPORTS ON NEWSWORTHY EVENTS

COMPUTER SCIENCE INSTITUTE
MATHEMATICS DEPARTMENT
SAN JOSE STATE UNIVERSITY

For the school year 1979-1980, the Department of Mathematics at San Jose State University developed a 25 week seminar in computer science for science and mathematics teachers under the direction of Professor Marjorie Fitting. Dr. Fitting applied to the National Science Foundation for support for this project and was funded for $31,927. Vincent Contreras, coordinator of the MESA Project and on leave as Chairman of the Department of Mathematics at Silver Creek High School became her teaching assistant.

The principle objective of this project was to provide 36 science and mathematics teachers with the concepts, skills, and practice necessary to enable them to use computers effectively in their classrooms. Participants in this project met from 4:30-9 p.m. each Tuesday for 25 weeks. Instruction in computer programming in BASIC with hands-on interactive experiences using the text TRAINING YOUR COMPUTER (which was written by the instructor for this purpose in editions for the PDP11/45 timeshare, TRS-80, PET, and Apple computers) occupied the first ten weeks. Lectures by subject matter specialists providing examples for use in the classroom during the last 15 weeks inspired some participants to create original programs for their classes. Other instruction included computer organization, assembly language and graphics programming.

Each participant utilized at least two computer programs in his class for instructional purposes and submitted copies of the programs used and a description and evaluation of its use. Participants reported that familiarity with hardware, competence in BASIC programming, sharing and exchanging programs and experiences in their use, and knowledge of the many ways to use computers in the classroom were the most valuable benefits. At least 15 participants will be teaching computer programming per se in a classroom next year.

Professor Veril Philips will serve as director of the institute for the school year 1980-1981. The project has been funded by the National Science Foundation for this period. Benefits to the participants include free tuition, small stipends for textbooks and transportation to the institute, suppers for the meetings which extend over the dinner hour, as well as the educational experiences of the institute itself.

A list of the participants for the 1979-80 school year follows. More than 36 persons participated since some persons participated for only one semester. It was unfortunate that some persons dropped after only one semester since those joining the institute at that time, even though they had previous experience in programming, felt that they were at a disadvantage compared to those who had been with the program for the full period.

PARTICIPANTS

James W. Bell
1575 Cherry Ave.
San Jose, CA 95125
295-2483

John L. Berney
5970 Little Uvas Road
Morgan Hill, CA 95037
779-3052

Peggy M. Burris
680 Glenview Ct.
Gilroy, CA 95020
842-4837

Dennis Conway
3592 Saueri Dr.
San Jose, CA 95127
251-5260

David A. Dickerson
225-0446

Burton H. Duke
2229 Pacheco Pass
Gilroy, CA 95020
842-5388

Stewart Eastman
263 Cresta Vista WAy
San Jose, CA 95119
227-9515

Catherine Marie Etheridge
2435 Armstrong Place
Santa Clara, CA 95050
985-6837

Mary Ferenchak
4958 Country Lane
San Jose, CA 95129
255-6476

Sandra Gilliam
2100 Nelson Road
Scotts Valley, CA 95066
335-5460

Barbara B. Goodson
1666 Kitchener Drive
Sunnyvale, CA 94087
739-3265

Silver Creek High School
3434 Silver Creek Road
San Jose, CA 95121
274-1700

Leland High School
6677 Camden Ave.
San Jose, CA 95120
998-6290 ext. 31

South Valley Jr. High School
385 IOOF Ave.
Gilroy, CA 95020
847-2828

W. C. Overfelt
1835 Cunningham Ave.
San Jose, CA
259-0540 ext. 341

Leland High School
6677 Camden Ave.
San Jose, CA 95120
998-6290 ext. 31

Gilroy High School
750 W. Tenth St.
Gilroy, CA 95020
847-2424

Oak Grove High School
285 Blossom Hill Road
San Jose, CA 95123
225-9332

Sunnyvale High School
Duane and Britton
Sunnyvale, CA 94086
735-6327

Cupertino High School
10100 Finch Ave.
Cupertino, CA 95014
735-6404

Yerba Buena High School
1855 Lucretia Ave.
San Jose, CA 95122
279-1500 ext. 69

Collins Jr. High School
10401 Vista Drive
Cupertino, CA 95014
255-5024

Rudolph S. Guttebo
933 San Lorenzo Ave.
Felton, CA 95018
335-5785

Marian Halverson
1760 Hwy. 50 West
Pleasanton, CA 94566
(415) 447-0137

John H. Hosmon
2678 Aida Ave.
San Jose, CA 95122
238-1473

Sherry Hufnagel
8405 Marcella Ave.
Gilroy, CA 95020
842-5851

Howard Jensen
6379 Atherwood Ave.
Cupertino, CA 95014
255-9463

Monya Johnson
14623 Ramstad Drive
San Jose, CA 95127
923-6510

June Jones
2883 Moss Hollow Drive
San Jose, CA 95121
274-6895

Warren Jones
2883 Moss Hollow Drive
San Jose, CA 95121
274-6895

Richard C. Keller, Jr.
15756 Alta Vista Way
San Jose, CA 95127
259-3200

Steven King
499 Feldspar Drive
San Jose, CA 95111
292-9156

Betty Kunz
829 Dartshire Way
Sunnyvale, CA 94087
245-8687

Allan Lundquist
420 Fieldcrest Drive
San Jose, CA 95123
225-0100

San Lorenzo Valley Int. School
P.O. Box 488
Ben Lomond, CA 95005
335-4452

Saratoga High School
Herriman Ave
Saratoga, CA 95070
867-3411 ext. 66

Silver Creek High School
3434 Silver Creek Road
San Jose, CA 95121
274-1700 ext. 66

W. C. Overfelt
1835 Cunningham Ave.
San Jose, CA
259-0540 ext. 341

Pioneer High School
1290 Blossom Hill Road
San Jose, CA 95118
998-6310

San Jose High School
275 N. 24th Street
San Jose, CA 95116
998-6320

Mt. Pleasant High School
1750 S. White Road
San Jose, CA 95122

Lincoln High School
555 Dana Ave.
San Jose, CA 95126

Piedmont Hills High School
1377 Piedmont Road
San Jose, CA 95132
251-8740

Logan High School
1800 H Street
Union City, CA
(415) 471-2520

Sunnyvale District Office
830 W. McKinley
Sunnyvale, CA 94086
736-4981

Madrone Jr. High School
739 Morse Ave.
San Jose, CA 94086
739-2355

Wilbur Mellema 319 N. 3rd St. Apt. 1 San Jose, CA 95112	Santa Clara School District
Raymond J. Miailovich 382 Richlee Drive Campbell, CA 95008 371-7641	Piedmont Hills High School 1377 Piedmont Rd. San Jose, CA 95132 251-8740
Jim Miyanaga 788 Pricewood Ct. San Jose, CA 95120 268-0872	Steinback Jr. High School 820 Steinback Drive San Jose, CA 95123 998-6385
Neil A. Morrison 6188 Olider Drive San Jose, CA 95123 226-1329	Leland High School 6677 Camden Ave. San Jose, CA 95120 998-6290 ext.31
Judy Moskal 2939 Old Almaden Road #12 San Jose, CA 95125 265-7990	Silver Creek High School 3434 Silver Creek Road San Jose, CA 95121 274-1700
Norman Pershing 791 Cumberland Drive Gilroy, CA 95020 842-5552	Gilroy High School 750 W. Tenth St. Gilroy, CA 95020 847-2424
Jane H. Pflughaupt 252 Montclair Road Los Gatos, CA 95030 395-4927	Bret Harte Jr. High School 7050 Bretharte Drive San Jose, CA 95120 998-6270
Dianne Pors 1533 Camino Monde San Jose, CA 95125 266-0312	Yerba Buena High School 1855 Lucretia Ave. San Jose, CA 95122 279-1500 ext. 69
Jeffrey A. Rochin 6378 San Anselmo WAy San Jose, CA 95119 225-8158	San Jose High School 275 N. 24th Street San Jose, CA 95116 998-6320
Raymond A. Rogoway 1134 Somerset Drive San Jose, CA 95132 272-2784	Independence High School 1776 Educational Park Drive San Jose, CA 95132 926-1776 ext. 7000
James B. Rutledge 1111 Morse Ave., #121 Sunnyvale, CA 94086 734-8241	Wilson Intermediate 1840 Benton St. Santa Clara, CA 95050 985-6375
Paula M. Schineller 1414 Ruiz Ct. San Jose, CA 95129	Piedmont Hills High School 1377 Piedmont Road San Jose, CA 95132 251-8740

George F. Schuttinger
1084 Terra Noble Way
San Jose, CA 95132
926-4540

William L. Smith
766 La Alandra Way
Gilroy, CA 95020
842-5846

Jaunel Stewart
1024 Belvedere Lane
San Jose, CA 95129
252-4778

Jerry Stuefloten
985 North Second Street
San Jose, CA 95112
288-6718

Joan F. Targ
1010 Harriet
Palo Alto, CA 94301
(415) 326-5271

John Tuomy
279 Scripps Ct.
Palo Alto, CA 94306

Richard M. Vierhus
1441 Cherrydale Drive
San Jose, CA 95125
267-2284

Donald Ward
5005 Glenwood Court
Pleasanton, CA 94566
846-5595

Griffith A. Weber
4298 Wilkie Way, Apt. A
Palo Alto, CA 94306
(415) 493-8615

Robert Wilson
3283 Knightswood Way
San Jose, CA 95122
238-5598

William Yamaki
1485 Stubbins Way
San Jose, CA 95122

Hyman Yip
278 Kaybe Court
San Jose, CA 95139
226-8587

Piedmont Hills High School
1377 Piedmont Road
San Jose, CA 95132
251-8740

Gilroy High School
750 W. Tenth St.
Gilroy, CA 95020
847-2424

Sunnyvale District Office
830 W. McKinley
Sunnyvale, CA 94086
736-4981

Wm. A. Wilson Intermediate
1840 Benton Street
Santa Clara, CA 95050
985-6375

Jordan Middle School
750 N. California Ave.
Palo Alto, CA 94303
(415) 855-8283

Elementary Education
25 Churchill Ave.
Palo Alto, CA 94306
855-8266

Independence High School
1776 Educational Park Drive
San Jose, CA 95132
926-7200

Madrone Jr. High School
739 Morse Ave.
Sunnyvale, CA 94088
739-2355

Jordan Jr. High School

(415) 855-8274

Silver Creek High School
3434 Silver Creek Road
San Jose, CA 95121
274-1700 ext. 21

Mt. Pleasant High School
1750 S. White Road
San Jose, CA 95122

Silver Creek High School
3434 Silver Creek Road
San Jose, CA 95121
274-1700 ext. 66

Among the computer attractions is a Sesame Street Mix and Match Stories game that permits children to combine random sentences and drawings to create a new story and reading lesson each time they play.

The computer curriculum includes games that teach about verbal, numerical, space, logic, sports, simulation, art and music concepts.

A basic goal is to provide an opportunity for parents and professionals concerned with child development to understand more about the value of play as a learning experience.

The computers will be programmed to provide even the youngest visitor with the opportunity to play challenging and enjoyable interactive games and create computer art and music.

SESAME PLACE

FACT SHEET

Description: *Sesame Place* is an innovative play park for children 3 to 12 offering a free-flowing combination of outdoor physical activities and challenging educational games. Children actively play at their own pace using their own skills and imagination.

Developer: *Sesame Place* is a joint venture of Busch Gardens, the family entertainment division of Anheuser-Busch, and the Children's Television Workshop, creators of "Sesame Street" and "The Electric Company" educational television series.

Location: The prototype park is being built on a 15-acre site near the Oxford Valley Mall, Middletownship, Pennsylvania, a 30-minute drive from downtown Philadelphia, 20 minutes from Trenton, N.J., and less than 2 hours from New York City.

Purpose: *Sesame Place* is designed to create an extraordinary leisure time experience providing wholesome family entertainment which combines elements of fun and educational activity.

Audience: *Sesame Place* will accommodate about 7,500 visitors daily from a four million population base within a 50-mile radius of the Oxford Valley site as well as visitors from more distant locations. Designed to appeal to families with children from ages 3 to 12, it offers opportunities for parents to participate in some activities with their youngsters.

Features: Elements thoughout the park will be themed with the Muppet characters from "Sesame Street," and closed circuit TV will provide new Muppet segments specially created for the park. Major components of the park will include:

PLAY AREA — More than 60 outdoor play elements comprise the play area which is divided into three sections: Land, Water, and Air Courts. Some are especially designed for *Sesame Place* by Eric McMillan and some are drawn from the repertoire he has created for five successful play areas in Canada and the U.S.

SCIENCE AND GAME PAVILION — An enclosed Science and Game Pavilion that will contain a number of science exhibits plus 60 new and especially adapted computer games for both children and adults. Conceived by Christopher Cerf in consultation with San Francisco's Exploratorium and Lawrence Hall of Science, it combines the best in electronic game concepts with the most innovative participative dimensions of modern science museums. Milton Glazer, Inc. is designing the Pavilion.

LIGHT GALLERY — This indoor area, to be designed by Eric McMillan, will contain participatory exhibits that will enable children to play with light, and, a full-scale replica of the "Sesame Street" set where kids can see and touch the neighborhood and be photographed with their favorite Muppets.

FOOD SERVICE — Restaurant will provide indoor and outdoor dining and a view of the play area, based on the concept of a "nutritional learning center" where families will learn about and practice good eating habits. The restaurant is being designed by Joseph Baum, creator of many famous restaurants.

RETAIL STORE — "Sesame Street" and "The Electric Company" products such as games, puzzles, records, books and toys plus other items relating directly to the park will be offered in a merchandise area.

Operating Schedule: All park activities will be open daily during the summer months, some school holidays and on certain weekends during the year. Selected play elements including the Science and Game Pavilion, Light Gallery, retail store and restaurant will be open throughout the year.

Construction Schedule: Groundbreaking, spring, 1979
Opening, summer, 1980

Architect: Cope, Linder, Walmsley of Philadelphia.

Graphic Coordinator: Milton Glazer, Inc.

Financial Consultants: K.S. Sweet Associates of Philadelphia.

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